

## **DENVER FRONT RANGE STUDY DIOXINS IN SURFACE SOIL**

### **Study 4: Characterization of Dioxins, Furans and PCBs In Soil Samples Collected from Historic Use Areas of the Rocky Mountain Arsenal**

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Prepared for and jointly by:

U.S. Environmental Protection Agency, Region 8  
Denver, Colorado

working in cooperation with:

Remediation Venture Office of the Rocky Mountain Arsenal  
and  
Colorado Department of Public Health and Environment

with technical support by:

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and

Gannett Fleming, Inc.  
Denver, Colorado

## **APPENDIX A**

### **RAW ANALYTICAL DATA AND CALCULATION OF TEQ VALUES**

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#### **APPENDIX A1**

##### **Results for Field Samples**

#### **APPENDIX A2**

##### **Results for the QC Samples**

Sample ID	105	Field		P-1								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.252	1.008	0.885	NJ		0.4425		0.1	0.0		0.8%	0.0%
2,3,7,8-TCDD	0.283	1.132	--			0.1415		1	0.1		2.6%	0.0%
1,2,3,7,8-PeCDF	0.448	1.792	2.39	--		2.39	2.39	0.05	0.1	0.1	2.2%	3.2%
2,3,4,7,8-PeCDF	0.408	1.632	1.28	--		1.28	0.64	0.5	0.6	0.3	11.9%	8.6%
1,2,3,7,8-PeCDD	1.28	5.12	--	E		0.64		1	0.6		11.9%	0.0%
1,2,3,4,7,8-HxCDF	0.744	2.976	4.69	--		4.69	4.69	0.1	0.5	0.5	8.7%	12.6%
1,2,3,6,7,8-HxCDF	0.675	2.7	3.43	--		3.43	3.43	0.1	0.3	0.3	6.4%	9.2%
2,3,4,6,7,8-HxCDF	0.887	3.548	1.98	--		1.98	0.99	0.1	0.2	0.1	3.7%	2.7%
1,2,3,7,8,9-HxCDF	1.23	4.92	1.45	B	<5x*B	1.45	0.3625	0.1	0.1	0.0	2.7%	1.0%
1,2,3,4,7,8-HxCDD	0.569	2.276	0.789	--		0.789	0.3945	0.1	0.1	0.0	1.5%	1.1%
1,2,3,6,7,8-HxCDD	0.483	1.932	1.3	--		1.3	0.65	0.1	0.1	0.1	2.4%	1.7%
1,2,3,7,8,9-HxCDD	0.485	1.94	1.02	--		1.02	0.51	0.1	0.1	0.1	1.9%	1.4%
1,2,3,4,6,7,8-HpCDF	19.3	77.2	--	D		4.825		0.01	0.0		0.9%	0.0%
1,2,3,4,7,8,9-HpCDF	1.2	4.8	6.36	--		6.36	6.36	0.01	0.1	0.1	1.2%	1.7%
1,2,3,4,6,7,8-HpCDD	0.446	1.784	41.8	--		41.8	41.8	0.01	0.4	0.4	7.8%	11.2%
OCDF	0.23	0.92	142	--		142	142	0.0001	0.0	0.0	0.3%	0.4%
OCDD	0.25	1	299	--		299	299	0.0001	0.0	0.0	0.6%	0.8%
PCB-77	1.02	4.08	166	--		166	166	0.0001	0.0	0.0	0.3%	0.4%
PCB-81	1.12	4.48	6.47	J		6.47	3.235	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	2.94	11.76	660	CJ		660	330	0.0001	0.1	0.0	1.2%	0.9%
PCB-114	2.88	11.52	--	<5x*B		1.44		0.0005	0.0		0.0%	0.0%
PCB-118	2.56	10.24	1100	CJ		1100	550	0.0001	0.1	0.1	2.0%	1.5%
PCB-123	54	216	--	E	<5x*B	27		0.0001	0.0		0.1%	0.0%
PCB-126	0.459	1.836	14.4	--		14.4	14.4	0.1	1.4	1.4	26.8%	38.7%
PCB-156	1.03	4.12	150	--		150	150	0.0005	0.1	0.1	1.4%	2.0%
PCB-157	1.07	4.28	33.7	--		33.7	33.7	0.0005	0.0	0.0	0.3%	0.5%
PCB-167	0.948	3.792	63.9	J		63.9	31.95	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.151	0.604	1.11	--		1.11	1.11	0.01	0.0	0.0	0.2%	0.3%
PCB-189	1.83	7.32	18.8	J		18.8	9.4	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
3.6	2.1	1.7	1.6	5.4	3.7

Sample ID	714	Field		P-10									
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	0.558	2.232	0.633	NJ		0.3165		0.1	0.0		0.5%	0.0%	
2,3,7,8-TCDD	0.17	0.68	--			0.085		1	0.1		1.3%	0.0%	
1,2,3,7,8-PeCDF	0.382	1.528	0.652	--		0.652	0.326	0.05	0.0	0.0	0.5%	0.3%	
2,3,4,7,8-PeCDF	0.349	1.396	0.486	--		0.486	0.243	0.5	0.2	0.1	3.6%	2.1%	
1,2,3,7,8-PeCDD	0.104	0.416	0.53	--		0.53	0.53	1	0.5	0.5	7.9%	9.3%	
1,2,3,4,7,8-HxCDF	0.249	0.996	1.32	--		1.32	1.32	0.1	0.1	0.1	2.0%	2.3%	
1,2,3,6,7,8-HxCDF	0.958	3.832	--	E		0.479		0.1	0.0		0.7%	0.0%	
2,3,4,6,7,8-HxCDF	0.31	1.24	0.942	B	<5x*B	0.942	0.2355	0.1	0.1	0.0	1.4%	0.4%	
1,2,3,7,8,9-HxCDF	0.466	1.864	0.617	B	<5x*B	0.617	0.15425	0.1	0.1	0.0	0.9%	0.3%	
1,2,3,4,7,8-HxCDD	0.171	0.684	0.865	--		0.865	0.865	0.1	0.1	0.1	1.3%	1.5%	
1,2,3,6,7,8-HxCDD	0.153	0.612	1.44	--		1.44	1.44	0.1	0.1	0.1	2.1%	2.5%	
1,2,3,7,8,9-HxCDD	0.152	0.608	1.05	--		1.05	1.05	0.1	0.1	0.1	1.6%	1.8%	
1,2,3,4,6,7,8-HpCDF	12.9	51.6	--	D		3.225		0.01	0.0		0.5%	0.0%	
1,2,3,4,7,8,9-HpCDF	1.59	6.36	--	E	<5x*B	0.795		0.01	0.0		0.1%	0.0%	
1,2,3,4,6,7,8-HpCDD	0.553	2.212	32.4	--		32.4	32.4	0.01	0.3	0.3	4.8%	5.7%	
OCDF	0.137	0.548	26.7	B	<5x*B	26.7	13.35	0.0001	0.0	0.0	0.0%	0.0%	
OCDD	0.0865	0.346	210	--		210	210	0.0001	0.0	0.0	0.3%	0.4%	
PCB-77	1.77	7.08	127	--		127	127	0.0001	0.0	0.0	0.2%	0.2%	
PCB-81	1.53	6.12	4.6	J		4.6	1.15	0.0001	0.0	0.0	0.0%	0.0%	
PCB-105	14.4	57.6	2000	CJ		2000	1000	0.0001	0.2	0.1	3.0%	1.8%	
PCB-114	14.1	56.4	108	--		108	108	0.0005	0.1	0.1	0.8%	1.0%	
PCB-118	11.6	46.4	4760	CJ		4760	2380	0.0001	0.5	0.2	7.1%	4.2%	
PCB-123	12.7	50.8	83.4	--		83.4	83.4	0.0001	0.0	0.0	0.1%	0.2%	
PCB-126	1.57	6.28	34.6	--		34.6	34.6	0.1	3.5	3.5	51.5%	60.6%	
PCB-156	0.352	1.408	826	CJ		826	413	0.0005	0.4	0.2	6.1%	3.6%	
PCB-157	0.367	1.468	187	--		187	187	0.0005	0.1	0.1	1.4%	1.6%	
PCB-167	0.324	1.296	310	J		310	155	0.00001	0.0	0.0	0.1%	0.0%	
PCB-169	0.388	1.552	1.63	--		1.63	1.63	0.01	0.0	0.0	0.2%	0.3%	
PCB-189	0.386	1.544	40.9	J		40.9	20.45	0.0001	0.0	0.0	0.1%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
2.0	1.5	4.7	4.2	6.7	5.7

Sample ID	769	Field		P-2								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.457	1.828	--		0.2285		0.1	0.0			1.6%	0.0%
2,3,7,8-TCDD	0.179	0.716	--		0.0895		1	0.1			6.2%	0.0%
1,2,3,7,8-PeCDF	0.133	0.532	0.345	--	0.345	0.1725	0.05	0.0	0.0		1.2%	0.9%
2,3,4,7,8-PeCDF	0.116	0.464	0.277	--	0.277	0.1385	0.5	0.1	0.1		9.6%	7.3%
1,2,3,7,8-PeCDD	0.185	0.74	0.342	--	0.342	0.171	1	0.3	0.2		23.8%	18.1%
1,2,3,4,7,8-HxCDF	0.234	0.936	0.986	--	0.986	0.986	0.1	0.1	0.1		6.9%	10.4%
1,2,3,6,7,8-HxCDF	0.202	0.808	0.834	--	0.834	0.834	0.1	0.1	0.1		5.8%	8.8%
2,3,4,6,7,8-HxCDF	0.257	1.028	0.62	B	<5x*B	0.62	0.155	0.1	0.1	0.0	4.3%	1.6%
1,2,3,7,8,9-HxCDF	0.308	1.232	0.623	B	<5x*B	0.623	0.15575	0.1	0.1	0.0	4.3%	1.7%
1,2,3,4,7,8-HxCDD	0.117	0.468	0.264	--	0.264	0.132	0.1	0.0	0.0		1.8%	1.4%
1,2,3,6,7,8-HxCDD	0.1	0.4	0.597	--	0.597	0.597	0.1	0.1	0.1		4.2%	6.3%
1,2,3,7,8,9-HxCDD	0.1	0.4	0.629	--	0.629	0.629	0.1	0.1	0.1		4.4%	6.7%
1,2,3,4,6,7,8-HpCDF	0.425	1.7	5.19	--	5.19	5.19	0.01	0.1	0.1		3.6%	5.5%
1,2,3,4,7,8,9-HpCDF	1.66	6.64	E	<5x*B	0.83		0.01	0.0			0.6%	0.0%
1,2,3,4,6,7,8-HpCDD	0.101	0.404	5.64	--	5.64	5.64	0.01	0.1	0.1		3.9%	6.0%
OCDF	0.0989	0.3956	36	--	36	36	0.0001	0.0	0.0		0.3%	0.4%
OCDD	0.142	0.568	40.6	--	40.6	40.6	0.0001	0.0	0.0		0.3%	0.4%
PCB-77	0.214	0.856	10.8	B	<5x*B	10.8	5.4	0.0001	0.0	0.0	0.1%	0.1%
PCB-81	0.241	0.964	1.01	J		1.01	0.505	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	0.479	1.916	57.8	BJ	<5x*B	57.8	28.9	0.0001	0.0	0.0	0.4%	0.3%
PCB-114	0.469	1.876	2.91	B	<5x*B	2.91	1.455	0.0005	0.0	0.0	0.1%	0.1%
PCB-118	0.427	1.708	135	BJ	<5x*B	135	67.5	0.0001	0.0	0.0	0.9%	0.7%
PCB-123	0.467	1.868	2.44	B	<5x*B	2.44	1.22	0.0001	0.0	0.0	0.0%	0.0%
PCB-126	0.207	0.828	2.12	--	2.12	2.12	0.1	0.2	0.2		14.7%	22.4%
PCB-156	0.103	0.412	20	B	<5x*B	20	10	0.0005	0.0	0.0	0.7%	0.5%
PCB-157	0.107	0.428	5.11	B	<5x*B	5.11	2.555	0.0005	0.0	0.0	0.2%	0.1%
PCB-167	0.0946	0.3784	8.82	BJ	<5x*B	8.82	4.41	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.0699	0.2796	0.336	--	0.336	0.336	0.01	0.0	0.0		0.2%	0.4%
PCB-189	0.0753	0.3012	1.61	BJ	<5x*B	1.61	0.805	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
1.2	0.7	0.3	0.2	1.4	0.9

Sample ID	819	Field		P-3								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.655	2.62	11.3	NJ		5.65		0.1	0.6		3.4%	0.0%
2,3,7,8-TCDD	0.175	0.7	1.03	--		1.03	1.03	1	1.0	1.0	6.1%	6.7%
1,2,3,7,8-PeCDF	1.55	6.2	12.4	--		12.4	12.4	0.05	0.6	0.6	3.7%	4.0%
2,3,4,7,8-PeCDF	1.4	5.6	6.31	--		6.31	6.31	0.5	3.2	3.2	18.8%	20.6%
1,2,3,7,8-PeCDD	0.188	0.752	1.28	--		1.28	1.28	1	1.3	1.3	7.6%	8.4%
1,2,3,4,7,8-HxCDF	2.13	8.52	23.4	--		23.4	23.4	0.1	2.3	2.3	14.0%	15.3%
1,2,3,6,7,8-HxCDF	1.9	7.6	13.1	--		13.1	13.1	0.1	1.3	1.3	7.8%	8.5%
2,3,4,6,7,8-HxCDF	2.39	9.56	7.27	--		7.27	3.635	0.1	0.7	0.4	4.3%	2.4%
1,2,3,7,8,9-HxCDF	2.81	11.24	5.14	--		5.14	2.57	0.1	0.5	0.3	3.1%	1.7%
1,2,3,4,7,8-HxCDD	0.526	2.104	1.7	--		1.7	0.85	0.1	0.2	0.1	1.0%	0.6%
1,2,3,6,7,8-HxCDD	0.441	1.764	2.51	--		2.51	2.51	0.1	0.3	0.3	1.5%	1.6%
1,2,3,7,8,9-HxCDD	0.445	1.78	2.66	--		2.66	2.66	0.1	0.3	0.3	1.6%	1.7%
1,2,3,4,6,7,8-HpCDF	0.26	1.04	61.6	--		61.6	61.6	0.01	0.6	0.6	3.7%	4.0%
1,2,3,4,7,8,9-HpCDF	0.458	1.832	19.4	--		19.4	19.4	0.01	0.2	0.2	1.2%	1.3%
1,2,3,4,6,7,8-HpCDD	0.283	1.132	44.8	--		44.8	44.8	0.01	0.4	0.4	2.7%	2.9%
OCDF	0.261	1.044	286	--		286	286	0.0001	0.0	0.0	0.2%	0.2%
OCDD	0.297	1.188	277	--		277	277	0.0001	0.0	0.0	0.2%	0.2%
PCB-77	0.49	1.96	166	--		166	166	0.0001	0.0	0.0	0.1%	0.1%
PCB-81	0.526	2.104	6.44	J		6.44	3.22	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	5.7	22.8	940	CJ		940	470	0.0001	0.1	0.0	0.6%	0.3%
PCB-114	79.3	317.2	E	<5x*B		39.65		0.0005	0.0		0.1%	0.0%
PCB-118	5.26	21.04	1990	CJ		1990	995	0.0001	0.2	0.1	1.2%	0.7%
PCB-123	84.8	339.2	E	<5x*B		42.4		0.0001	0.0		0.0%	0.0%
PCB-126	0.314	1.256	27.2	--		27.2	27.2	0.1	2.7	2.7	16.2%	17.7%
PCB-156	1.65	6.6	145	--		145	145	0.0005	0.1	0.1	0.4%	0.5%
PCB-157	1.72	6.88	126	--		126	126	0.0005	0.1	0.1	0.4%	0.4%
PCB-167	1.52	6.08	264	J		264	132	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.251	1.004	3.77	--		3.77	3.77	0.01	0.0	0.0	0.2%	0.3%
PCB-189	1.75	7	45	J		45	22.5	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
13.5	12.3	3.2	3.1	16.8	15.3

Sample ID	157	Field		P-4								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.399	1.596	5.58	NJ		2.79		0.1	0.3		1.8%	0.0%
2,3,7,8-TCDD	0.233	0.932		E		0.1165		1	0.1		0.8%	0.0%
1,2,3,7,8-PeCDF	0.145	0.58	6.98	--		6.98	6.98	0.05	0.3	0.3	2.3%	2.4%
2,3,4,7,8-PeCDF	0.132	0.528	4.48	--		4.48	4.48	0.5	2.2	2.2	14.5%	15.2%
1,2,3,7,8-PeCDD	0.0822	0.3288	1.87	--		1.87	1.87	1	1.9	1.9	12.1%	12.7%
1,2,3,4,7,8-HxCDF	0.417	1.668	10	--		10	10	0.1	1.0	1.0	6.5%	6.8%
1,2,3,6,7,8-HxCDF	0.341	1.364	7.81	--		7.81	7.81	0.1	0.8	0.8	5.1%	5.3%
2,3,4,6,7,8-HxCDF	0.429	1.716	8.22	--		8.22	8.22	0.1	0.8	0.8	5.3%	5.6%
1,2,3,7,8,9-HxCDF	0.485	1.94	2.09	B	<5x*B	2.09	1.045	0.1	0.2	0.1	1.4%	0.7%
1,2,3,4,7,8-HxCDD	0.165	0.66	3.38	--		3.38	3.38	0.1	0.3	0.3	2.2%	2.3%
1,2,3,6,7,8-HxCDD	0.14	0.56	7.97	--		7.97	7.97	0.1	0.8	0.8	5.2%	5.4%
1,2,3,7,8,9-HxCDD	0.142	0.568	6.72	--		6.72	6.72	0.1	0.7	0.7	4.4%	4.5%
1,2,3,4,6,7,8-HpCDF	0.298	1.192	98.3	--		98.3	98.3	0.01	1.0	1.0	6.4%	6.7%
1,2,3,4,7,8,9-HpCDF	0.539	2.156	10.7	--		10.7	10.7	0.01	0.1	0.1	0.7%	0.7%
1,2,3,4,6,7,8-HpCDD	1.37	5.48	182	--		182	182	0.01	1.8	1.8	11.8%	12.3%
OCDF	0.00818	0.0327	216	--		216	216	0.0001	0.0	0.0	0.1%	0.1%
OCDD	0.0132	0.0528	956	--		956	956	0.0001	0.1	0.1	0.6%	0.6%
PCB-77	0.374	1.496	98.4	--		98.4	98.4	0.0001	0.0	0.0	0.1%	0.1%
PCB-81	0.539	2.156	2.75	J		2.75	1.375	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	8.63	34.52	710	CJ		710	355	0.0001	0.1	0.0	0.5%	0.2%
PCB-114	8.45	33.8	30.3	--		30.3	15.15	0.0005	0.0	0.0	0.1%	0.1%
PCB-118	6.86	27.44	1430	CJ		1430	715	0.0001	0.1	0.1	0.9%	0.5%
PCB-123	7.51	30.04	26.6	--		26.6	13.3	0.0001	0.0	0.0	0.0%	0.0%
PCB-126	1.41	5.64	24.6	--		24.6	24.6	0.1	2.5	2.5	16.0%	16.6%
PCB-156	0.555	2.22	273	--		273	273	0.0005	0.1	0.1	0.9%	0.9%
PCB-157	0.578	2.312	78	--		78	78	0.0005	0.0	0.0	0.3%	0.3%
PCB-167	0.51	2.04	152	J		152	76	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.96	3.84	2.83	--		2.83	1.415	0.01	0.0	0.0	0.2%	0.1%
PCB-189	0.594	2.376	37.1	J		37.1	18.55	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
12.5	12.0	2.9	2.8	15.4	14.8

## APPENDIX A1. Field Results

Sample ID	273	Field		P-5		Replaced 'S' in result column with 10x the QL for PCB-118.							
Analyte	EDL	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
		EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.37	1.48	8.56	NJ			4.28		0.1	0.4		0.9%	0.0%
2,3,7,8-TCDD	0.366	1.464		E			0.183		1	0.2		0.4%	0.0%
1,2,3,7,8-PeCDF	0.2	0.8	6.85	--			6.85	6.85	0.05	0.3	0.3	0.7%	1.2%
2,3,4,7,8-PeCDF	0.184	0.736	5.43	--			5.43	5.43	0.5	2.7	2.7	5.6%	9.2%
1,2,3,7,8-PeCDD	0.176	0.704	1.77	--			1.77	1.77	1	1.8	1.8	3.6%	6.0%
1,2,3,4,7,8-HxCDF	0.327	1.308	13.1	--			13.1	13.1	0.1	1.3	1.3	2.7%	4.4%
1,2,3,6,7,8-HxCDF	0.291	1.164	8.26	--			8.26	8.26	0.1	0.8	0.8	1.7%	2.8%
2,3,4,6,7,8-HxCDF	0.374	1.496	5.23	--			5.23	5.23	0.1	0.5	0.5	1.1%	1.8%
1,2,3,7,8,9-HxCDF	2.63	10.52		E	<5x*B		1.315		0.1	0.1		0.3%	0.0%
1,2,3,4,7,8-HxCDD	0.493	1.972	2.95	--			2.95	2.95	0.1	0.3	0.3	0.6%	1.0%
1,2,3,6,7,8-HxCDD	0.457	1.828	5.39	--			5.39	5.39	0.1	0.5	0.5	1.1%	1.8%
1,2,3,7,8,9-HxCDD	0.447	1.788	3.54	--			3.54	3.54	0.1	0.4	0.4	0.7%	1.2%
1,2,3,4,6,7,8-HpCDF	0.22	0.88	50.7	--			50.7	50.7	0.01	0.5	0.5	1.0%	1.7%
1,2,3,4,7,8,9-HpCDF	0.496	1.984	12.3	--			12.3	12.3	0.01	0.1	0.1	0.3%	0.4%
1,2,3,4,6,7,8-HpCDD	1.18	4.72	123	--			123	123	0.01	1.2	1.2	2.5%	4.2%
OCDF	0.126	0.504	186	--			186	186	0.0001	0.0	0.0	0.0%	0.1%
OCDD	0.151	0.604	747	--			747	747	0.0001	0.1	0.1	0.2%	0.3%
PCB-77	6.59	26.36	1780	CJ			1780	890	0.0001	0.2	0.1	0.4%	0.3%
PCB-81	6.05	24.2	42	J			42	21	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	146	584	14300	SJ			14300	7150	0.0001	1.4	0.7	2.9%	2.4%
PCB-114	143	572	773	CJ			773	386.5	0.0005	0.4	0.2	0.8%	0.7%
PCB-118	115	460	4600	SJ	<5x*B		57.5		0.0001	0.0		0.0%	0.0%
PCB-123	126	504	921	CJ			921	460.5	0.0001	0.1	0.0	0.2%	0.2%
PCB-126	48	192	311	CJ			311	155.5	0.1	31.1	15.6	63.7%	52.8%
PCB-156	7.51	30.04	6300	CJ			6300	3150	0.0005	3.2	1.6	6.5%	5.3%
PCB-157	7.81	31.24	1540	CJ			1540	770	0.0005	0.8	0.4	1.6%	1.3%
PCB-167	6.9	27.6	2700	CJ			2700	1350	0.00001	0.0	0.0	0.1%	0.0%
PCB-169	2.85	11.4	21.2	--			21.2	21.2	0.01	0.2	0.2	0.4%	0.7%
PCB-189	6.04	24.16	827	CJ			827	413.5	0.0001	0.1	0.0	0.2%	0.1%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
11.4	10.6	37.4	18.8	48.8	29.5

Sample ID	839	Field		P-6								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.614	2.456	0.311	NJ		0.1535		0.1	0.0		0.2%	0.0%
2,3,7,8-TCDD	0.0985	0.394		--		0.04925		1	0.0		0.5%	0.0%
1,2,3,7,8-PeCDF	0.0738	0.2952	1.26	--		1.26	1.26	0.05	0.1	0.1	0.6%	0.6%
2,3,4,7,8-PeCDF	0.0684	0.2736	1.09	--		1.09	1.09	0.5	0.5	0.5	5.2%	5.3%
1,2,3,7,8-PeCDD	0.00685	0.0274	1.86	--		1.86	1.86	1	1.9	1.9	17.7%	18.1%
1,2,3,4,7,8-HxCDF	0.344	1.376	6.92	--		6.92	6.92	0.1	0.7	0.7	6.6%	6.7%
1,2,3,6,7,8-HxCDF	0.445	1.78	3.14	--		3.14	3.14	0.1	0.3	0.3	3.0%	3.1%
2,3,4,6,7,8-HxCDF	0.566	2.264	4.5	--		4.5	4.5	0.1	0.5	0.5	4.3%	4.4%
1,2,3,7,8,9-HxCDF	0.663	2.652	1.29	B	<5x*B	1.29	0.3225	0.1	0.1	0.0	1.2%	0.3%
1,2,3,4,7,8-HxCDD	0.0919	0.3676	3.45	--		3.45	3.45	0.1	0.3	0.3	3.3%	3.4%
1,2,3,6,7,8-HxCDD	0.0798	0.3192	7.9	--		7.9	7.9	0.1	0.8	0.8	7.5%	7.7%
1,2,3,7,8,9-HxCDD	0.0802	0.3208	6.87	--		6.87	6.87	0.1	0.7	0.7	6.6%	6.7%
1,2,3,4,6,7,8-HpCDF	0.212	0.848	70	--		70	70	0.01	0.7	0.7	6.7%	6.8%
1,2,3,4,7,8,9-HpCDF	0.36	1.44	6.86	--		6.86	6.86	0.01	0.1	0.1	0.7%	0.7%
1,2,3,4,6,7,8-HpCDD	2.29	9.16	264	--		264	264	0.01	2.6	2.6	25.2%	25.7%
OCDF	0.0619	0.2476	243	--		243	243	0.0001	0.0	0.0	0.2%	0.2%
OCDD	0.0102	0.0408	2190	--		2190	2190	0.0001	0.2	0.2	2.1%	2.1%
PCB-77	0.455	1.82	51.8	--		51.8	51.8	0.0001	0.0	0.0	0.1%	0.1%
PCB-81	0.39	1.56	2.21	J		2.21	1.105	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	1.73	6.92	376	J		376	188	0.0001	0.0	0.0	0.4%	0.2%
PCB-114	1.69	6.76	23	--		23	23	0.0005	0.0	0.0	0.1%	0.1%
PCB-118	1.49	5.96	669	CJ		669	334.5	0.0001	0.1	0.0	0.6%	0.3%
PCB-123	1.63	6.52	16.7	--		16.7	16.7	0.0001	0.0	0.0	0.0%	0.0%
PCB-126	1.14	4.56	7.03	--		7.03	7.03	0.1	0.7	0.7	6.7%	6.9%
PCB-156	0.612	2.448	89.3	--		89.3	89.3	0.0005	0.0	0.0	0.4%	0.4%
PCB-157	0.637	2.548	27.4	--		27.4	27.4	0.0005	0.0	0.0	0.1%	0.1%
PCB-167	0.563	2.252	41.6	J		41.6	20.8	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.335	1.34	0.498	--		0.498	0.249	0.01	0.0	0.0	0.1%	0.0%
PCB-189	0.687	2.748	7.01	J		7.01	3.505	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
9.6	9.4	0.9	0.8	10.5	10.3

Sample ID	270	Field		P-7								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	1.4	5.6	0.47	NJ		0.35		0.1	0.0		1.8%	0.0%
2,3,7,8-TCDD	0.108	0.432		--		0.054		1	0.1		2.8%	0.0%
1,2,3,7,8-PeCDF	0.19	0.76	0.604	--		0.604	0.302	0.05	0.0	0.0	1.6%	1.0%
2,3,4,7,8-PeCDF	0.179	0.716	0.533	--		0.533	0.2665	0.5	0.3	0.1	14.0%	8.9%
1,2,3,7,8-PeCDD	0.0877	0.3508	0.523	--		0.523	0.523	1	0.5	0.5	27.5%	35.1%
1,2,3,4,7,8-HxCDF	0.202	0.808	0.995	--		0.995	0.995	0.1	0.1	0.1	5.2%	6.7%
1,2,3,6,7,8-HxCDF	0.84	3.36		E		0.42		0.1	0.0		2.2%	0.0%
2,3,4,6,7,8-HxCDF	0.451	1.804	0.528	B	<5x*B	0.528	0.132	0.1	0.1	0.0	2.8%	0.9%
1,2,3,7,8,9-HxCDF	0.547	2.188		E	<5x*B	0.2735		0.1	0.0		1.4%	0.0%
1,2,3,4,7,8-HxCDD	0.194	0.776	0.569	--		0.569	0.2845	0.1	0.1	0.0	3.0%	1.9%
1,2,3,6,7,8-HxCDD	0.169	0.676	1.17	--		1.17	1.17	0.1	0.1	0.1	6.1%	7.9%
1,2,3,7,8,9-HxCDD	0.171	0.684	0.774	--		0.774	0.774	0.1	0.1	0.1	4.1%	5.2%
1,2,3,4,6,7,8-HpCDF	4.55	18.2		D		1.1375		0.01	0.0		0.6%	0.0%
1,2,3,4,7,8,9-HpCDF	1.15	4.6	1.17	B	<5x*B	1.17	0.2925	0.01	0.0	0.0	0.6%	0.2%
1,2,3,4,6,7,8-HpCDD	0.406	1.624	14.5	--		14.5	14.5	0.01	0.1	0.1	7.6%	9.7%
OCDF	0.022	0.088	18.7	B	<5x*B	18.7	9.35	0.0001	0.0	0.0	0.1%	0.1%
OCDD	0.509	2.036	81.6	--		81.6	81.6	0.0001	0.0	0.0	0.4%	0.5%
PCB-77	0.425	1.7	17.4	--		17.4	17.4	0.0001	0.0	0.0	0.1%	0.1%
PCB-81	0.364	1.456	0.773	J		0.773	0.19325	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	0.164	0.656	62.9	BJ	<5x*B	62.9	31.45	0.0001	0.0	0.0	0.3%	0.2%
PCB-114	0.161	0.644	2.5	B	<5x*B	2.5	1.25	0.0005	0.0	0.0	0.1%	0.0%
PCB-118	0.15	0.6	127	BJ	<5x*B	127	63.5	0.0001	0.0	0.0	0.7%	0.4%
PCB-123	0.164	0.656	2.27	B	<5x*B	2.27	1.135	0.0001	0.0	0.0	0.0%	0.0%
PCB-126	0.717	2.868	3.05	--		3.05	3.05	0.1	0.3	0.3	16.0%	20.5%
PCB-156	0.137	0.548	19.3	B	<5x*B	19.3	9.65	0.0005	0.0	0.0	0.5%	0.3%
PCB-157	0.142	0.568	4.48	B	<5x*B	4.48	2.24	0.0005	0.0	0.0	0.1%	0.1%
PCB-167	0.126	0.504	9.05	BJ	<5x*B	9.05	4.525	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.256	1.024	0.401	--		0.401	0.2005	0.01	0.0	0.0	0.2%	0.1%
PCB-189	0.0327	0.1308	3.34	J		3.34	1.67	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
1.6	1.2	0.3	0.3	1.9	1.5

Sample ID	237	Field		P-8								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.365	1.46	1.73	NJ		0.865		0.1	0.1		1.5%	0.0%
2,3,7,8-TCDD	0.102	0.408	0.192	--		0.192	0.096	1	0.2	0.1	3.2%	1.7%
1,2,3,7,8-PeCDF	0.128	0.512	3.92	--		3.92	3.92	0.05	0.2	0.2	3.3%	3.5%
2,3,4,7,8-PeCDF	0.114	0.456	1.23	--		1.23	1.23	0.5	0.6	0.6	10.4%	11.1%
1,2,3,7,8-PeCDD	0.104	0.416	0.527	--		0.527	0.527	1	0.5	0.5	8.9%	9.5%
1,2,3,4,7,8-HxCDF	0.0728	0.2912	5.89	--		5.89	5.89	0.1	0.6	0.6	9.9%	10.6%
1,2,3,6,7,8-HxCDF	0.0754	0.3016	3.75	--		3.75	3.75	0.1	0.4	0.4	6.3%	6.8%
2,3,4,6,7,8-HxCDF	0.0927	0.3708	2.18	--		2.18	2.18	0.1	0.2	0.2	3.7%	3.9%
1,2,3,7,8,9-HxCDF	0.111	0.444	1.52	B	<5x*B	1.52	0.76	0.1	0.2	0.1	2.6%	1.4%
1,2,3,4,7,8-HxCDD	0.573	2.292		E		0.2865		0.1	0.0		0.5%	0.0%
1,2,3,6,7,8-HxCDD	0.1	0.4	1.04	--		1.04	1.04	0.1	0.1	0.1	1.8%	1.9%
1,2,3,7,8,9-HxCDD	0.1	0.4	0.821	--		0.821	0.821	0.1	0.1	0.1	1.4%	1.5%
1,2,3,4,6,7,8-HpCDF	0.184	0.736	17.5	--		17.5	17.5	0.01	0.2	0.2	2.9%	3.2%
1,2,3,4,7,8,9-HpCDF	0.375	1.5	7.25	--		7.25	7.25	0.01	0.1	0.1	1.2%	1.3%
1,2,3,4,6,7,8-HpCDD	0.286	1.144	15.4	--		15.4	15.4	0.01	0.2	0.2	2.6%	2.8%
OCDF	0.107	0.428	126	--		126	126	0.0001	0.0	0.0	0.2%	0.2%
OCDD	0.0828	0.3312	105	--		105	105	0.0001	0.0	0.0	0.2%	0.2%
PCB-77	0.47	1.88	95.1	--		95.1	95.1	0.0001	0.0	0.0	0.2%	0.2%
PCB-81	0.419	1.676	3.27	J		3.27	1.635	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	3.31	13.24	670	CJ		670	335	0.0001	0.1	0.0	1.1%	0.6%
PCB-114	3.24	12.96	23.9	--		23.9	23.9	0.0005	0.0	0.0	0.2%	0.2%
PCB-118	2.7	10.8	1290	CJ		1290	645	0.0001	0.1	0.1	2.2%	1.2%
PCB-123	2.96	11.84	20.7	--		20.7	20.7	0.0001	0.0	0.0	0.0%	0.0%
PCB-126	0.697	2.788	19.9	--		19.9	19.9	0.1	2.0	2.0	33.5%	35.9%
PCB-156	0.482	1.928	208	--		208	208	0.0005	0.1	0.1	1.8%	1.9%
PCB-157	0.501	2.004	55.5	--		55.5	55.5	0.0005	0.0	0.0	0.5%	0.5%
PCB-167	0.443	1.772	93.7	J		93.7	46.85	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	1.1	4.4		E		0.55		0.01	0.0		0.1%	0.0%
PCB-189	0.39	1.56	13.7	J		13.7	6.85	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
3.6	3.3	2.3	2.2	5.9	5.5

Sample ID	404	Field		P-9								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.201	0.804	3.02	NJ		1.51		0.1	0.2		2.1%	0.0%
2,3,7,8-TCDD	0.215	0.86	0.156	--		0.1075		1	0.1		1.5%	0.0%
1,2,3,7,8-PeCDF	0.128	0.512	6.82	--		6.82	6.82	0.05	0.3	0.3	4.7%	5.3%
2,3,4,7,8-PeCDF	0.12	0.48	2.34	--		2.34	2.34	0.5	1.2	1.2	16.1%	18.3%
1,2,3,7,8-PeCDD	0.2	0.8	0.637	--		0.637	0.3185	1	0.6	0.3	8.8%	5.0%
1,2,3,4,7,8-HxCDF	0.633	2.532	10.8	--		10.8	10.8	0.1	1.1	1.1	14.9%	16.9%
1,2,3,6,7,8-HxCDF	0.543	2.172	6.01	--		6.01	6.01	0.1	0.6	0.6	8.3%	9.4%
2,3,4,6,7,8-HxCDF	0.672	2.688	3.24	--		3.24	3.24	0.1	0.3	0.3	4.5%	5.1%
1,2,3,7,8,9-HxCDF	0.848	3.392	2.53	B	<5x*B	2.53	0.6325	0.1	0.3	0.1	3.5%	1.0%
1,2,3,4,7,8-HxCDD	0.198	0.792	0.763	--		0.763	0.3815	0.1	0.1	0.0	1.0%	0.6%
1,2,3,6,7,8-HxCDD	0.165	0.66	1.04	--		1.04	1.04	0.1	0.1	0.1	1.4%	1.6%
1,2,3,7,8,9-HxCDD	0.17	0.68	0.889	--		0.889	0.889	0.1	0.1	0.1	1.2%	1.4%
1,2,3,4,6,7,8-HpCDF	0.304	1.216	28.2	--		28.2	28.2	0.01	0.3	0.3	3.9%	4.4%
1,2,3,4,7,8,9-HpCDF	0.601	2.404	11	--		11	11	0.01	0.1	0.1	1.5%	1.7%
1,2,3,4,6,7,8-HpCDD	0.259	1.036	14.1	--		14.1	14.1	0.01	0.1	0.1	1.9%	2.2%
OCDF	0.134	0.536	156	--		156	156	0.0001	0.0	0.0	0.2%	0.2%
OCDD	0.155	0.62	103	--		103	103	0.0001	0.0	0.0	0.1%	0.2%
PCB-77	0.576	2.304	88.9	--		88.9	88.9	0.0001	0.0	0.0	0.1%	0.1%
PCB-81	0.477	1.908	4.24	J		4.24	2.12	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	5.67	22.68	457	J		457	228.5	0.0001	0.0	0.0	0.6%	0.4%
PCB-114	18.7	74.8	E	<5x*B		9.35		0.0005	0.0		0.1%	0.0%
PCB-118	4.91	19.64	934	CJ		934	467	0.0001	0.1	0.0	1.3%	0.7%
PCB-123	5.37	21.48	36.1	--		36.1	36.1	0.0001	0.0	0.0	0.0%	0.1%
PCB-126	0.909	3.636	15.2	--		15.2	15.2	0.1	1.5	1.5	20.9%	23.8%
PCB-156	1.76	7.04	133	--		133	133	0.0005	0.1	0.1	0.9%	1.0%
PCB-157	1.83	7.32	37.6	--		37.6	37.6	0.0005	0.0	0.0	0.3%	0.3%
PCB-167	1.62	6.48	60.1	J		60.1	30.05	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.328	1.312	1.51	--		1.51	1.51	0.01	0.0	0.0	0.2%	0.2%
PCB-189	2.35	9.4	12.8	J		12.8	6.4	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
5.5	4.7	1.8	1.7	7.3	6.4

Sample ID	299	Field		SP-1								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.277	1.108	0.902	NJ		0.451		0.1	0.0		0.8%	0.0%
2,3,7,8-TCDD	0.229	0.916	0.879	--		0.879	0.4395	1	0.9	0.4	15.8%	11.7%
1,2,3,7,8-PeCDF	0.361	1.444	3.59	--		3.59	3.59	0.05	0.2	0.2	3.2%	4.8%
2,3,4,7,8-PeCDF	0.326	1.304	1.05	--		1.05	0.525	0.5	0.5	0.3	9.4%	7.0%
1,2,3,7,8-PeCDD	0.299	1.196	0.765	B	<5x*B	0.765	0.19125	1	0.8	0.2	13.7%	5.1%
1,2,3,4,7,8-HxCDF	0.928	3.712	6.94	--		6.94	6.94	0.1	0.7	0.7	12.5%	18.6%
1,2,3,6,7,8-HxCDF	0.83	3.32	3.87	--		3.87	3.87	0.1	0.4	0.4	6.9%	10.3%
2,3,4,6,7,8-HxCDF	1.1	4.4	2.03	--		2.03	1.015	0.1	0.2	0.1	3.6%	2.7%
1,2,3,7,8,9-HxCDF	1.68	6.72	1.71	B	<5x*B	1.71	0.4275	0.1	0.2	0.0	3.1%	1.1%
1,2,3,4,7,8-HxCDD	0.235	0.94	0.613	--		0.613	0.3065	0.1	0.1	0.0	1.1%	0.8%
1,2,3,6,7,8-HxCDD	1.04	4.16		E		0.52		0.1	0.1		0.9%	0.0%
1,2,3,7,8,9-HxCDD	0.205	0.82	0.726	J		0.726	0.1815	0.1	0.1	0.0	1.3%	0.5%
1,2,3,4,6,7,8-HpCDF	16.9	67.6		D	<5x*B	4.225		0.01	0.0		0.8%	0.0%
1,2,3,4,7,8,9-HpCDF	0.218	0.872	6.68	--		6.68	6.68	0.01	0.1	0.1	1.2%	1.8%
1,2,3,4,6,7,8-HpCDD	0.0667	0.2668	22.1	--		22.1	22.1	0.01	0.2	0.2	4.0%	5.9%
OCDF	0.134	0.536	97.5	--		97.5	97.5	0.0001	0.0	0.0	0.2%	0.3%
OCDD	0.0921	0.3684	167	--		167	167	0.0001	0.0	0.0	0.3%	0.4%
PCB-77	1.06	4.24	61.3	J		61.3	30.65	0.0001	0.0	0.0	0.1%	0.1%
PCB-81	1.15	4.6	2.12	J		2.12	0.53	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	7.55	30.2	374	--		374	374	0.0001	0.0	0.0	0.7%	1.0%
PCB-114	7.36	29.44	19.5	--		19.5	9.75	0.0005	0.0	0.0	0.2%	0.1%
PCB-118	6.01	24.04	815	CJ		815	407.5	0.0001	0.1	0.0	1.5%	1.1%
PCB-123	6.36	25.44		--	<5x*B	3.18		0.0001	0.0		0.0%	0.0%
PCB-126	0.634	2.536	9.5	--		9.5	9.5	0.1	1.0	1.0	17.1%	25.4%
PCB-156	2.96	11.84	125	J		125	62.5	0.0005	0.1	0.0	1.1%	0.8%
PCB-157	3.15	12.6	32.1	J		32.1	16.05	0.0005	0.0	0.0	0.3%	0.2%
PCB-167	2.95	11.8	59.3	J		59.3	29.65	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.879	3.516	1.24	J		1.24	0.31	0.01	0.0	0.0	0.2%	0.1%
PCB-189	2.4	9.6	13	J		13	6.5	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
4.4	2.7	1.2	1.1	5.6	3.7

Sample ID	571	Field		SP-10								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.703	2.812	0.745	NJ		0.3725		0.1	0.0		1.1%	0.0%
2,3,7,8-TCDD	0.152	0.608	--			0.076		1	0.1		2.3%	0.0%
1,2,3,7,8-PeCDF	0.214	0.856	3.74	--		3.74	3.74	0.05	0.2	0.2	5.7%	7.1%
2,3,4,7,8-PeCDF	0.173	0.692	0.82	--		0.82	0.82	0.5	0.4	0.4	12.4%	15.6%
1,2,3,7,8-PeCDD	0.377	1.508	--	E	<5x*B	0.1885		1	0.2		5.7%	0.0%
1,2,3,4,7,8-HxCDF	0.61	2.44	7.36	--		7.36	7.36	0.1	0.7	0.7	22.3%	28.0%
1,2,3,6,7,8-HxCDF	0.524	2.096	3.95	--		3.95	3.95	0.1	0.4	0.4	12.0%	15.0%
2,3,4,6,7,8-HxCDF	0.741	2.964	1.93	--		1.93	0.965	0.1	0.2	0.1	5.9%	3.7%
1,2,3,7,8,9-HxCDF	0.962	3.848	1.73	B	<5x*B	1.73	0.4325	0.1	0.2	0.0	5.3%	1.6%
1,2,3,4,7,8-HxCDD	0.175	0.7	0.405	--		0.405	0.2025	0.1	0.0	0.0	1.2%	0.8%
1,2,3,6,7,8-HxCDD	0.148	0.592	0.758	--		0.758	0.758	0.1	0.1	0.1	2.3%	2.9%
1,2,3,7,8,9-HxCDD	0.148	0.592	0.853	J		0.853	0.4265	0.1	0.1	0.0	2.6%	1.6%
1,2,3,4,6,7,8-HpCDF	19.5	78	--	D	<5x*B	4.875		0.01	0.0		1.5%	0.0%
1,2,3,4,7,8,9-HpCDF	0.139	0.556	8.26	--		8.26	8.26	0.01	0.1	0.1	2.5%	3.1%
1,2,3,4,6,7,8-HpCDD	0.0932	0.3728	11.3	--		11.3	11.3	0.01	0.1	0.1	3.4%	4.3%
OCDF	0.149	0.596	135	--		135	135	0.0001	0.0	0.0	0.4%	0.5%
OCDD	0.0721	0.2884	102	--		102	102	0.0001	0.0	0.0	0.3%	0.4%
PCB-77	0.81	3.24	30.1	BJ	<5x*B	30.1	15.05	0.0001	0.0	0.0	0.1%	0.1%
PCB-81	1.07	4.28	1.43	J		1.43	0.3575	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	2.97	11.88	85.5	B	<5x*B	85.5	42.75	0.0001	0.0	0.0	0.3%	0.2%
PCB-114	2.9	11.6	3.55	B	<5x*B	3.55	0.8875	0.0005	0.0	0.0	0.1%	0.0%
PCB-118	2.39	9.56	150	BJ	<5x*B	150	75	0.0001	0.0	0.0	0.5%	0.3%
PCB-123	2.53	10.12	--	<5x*B		1.265		0.0001	0.0		0.0%	0.0%
PCB-126	0.722	2.888	3.79	--		3.79	3.79	0.1	0.4	0.4	11.5%	14.4%
PCB-156	2.23	8.92	22.7	BJ	<5x*B	22.7	11.35	0.0005	0.0	0.0	0.3%	0.2%
PCB-157	2.37	9.48	7.16	BJ	<5x*B	7.16	1.79	0.0005	0.0	0.0	0.1%	0.0%
PCB-167	2.22	8.88	14.8	BJ	<5x*B	14.8	7.4	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.375	1.5	0.674	J		0.674	0.1685	0.01	0.0	0.0	0.2%	0.1%
PCB-189	5.42	21.68	--	EJ		2.71		0.0001	0.0		0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
2.9	2.2	0.4	0.4	3.3	2.6

Sample ID	461	Field		SP-11								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.114	0.456	0.567	NJ		0.2835		0.1	0.0		0.9%	0.0%
2,3,7,8-TCDD	0.204	0.816		--		0.102		1	0.1		3.4%	0.0%
1,2,3,7,8-PeCDF	0.163	0.652	2.2	--		2.2	2.2	0.05	0.1	0.1	3.7%	4.9%
2,3,4,7,8-PeCDF	0.137	0.548	0.551	--		0.551	0.551	0.5	0.3	0.3	9.1%	12.4%
1,2,3,7,8-PeCDD	0.205	0.82	0.342	B	<5x*B	0.342	0.0855	1	0.3	0.1	11.4%	3.8%
1,2,3,4,7,8-HxCDF	0.575	2.3	3.86	--		3.86	3.86	0.1	0.4	0.4	12.8%	17.4%
1,2,3,6,7,8-HxCDF	0.508	2.032	2.27	--		2.27	2.27	0.1	0.2	0.2	7.5%	10.2%
2,3,4,6,7,8-HxCDF	0.753	3.012	1.24	B	<5x*B	1.24	0.31	0.1	0.1	0.0	4.1%	1.4%
1,2,3,7,8,9-HxCDF	1.03	4.12	1.15	B	<5x*B	1.15	0.2875	0.1	0.1	0.0	3.8%	1.3%
1,2,3,4,7,8-HxCDD	0.207	0.828	0.463	--		0.463	0.2315	0.1	0.0	0.0	1.5%	1.0%
1,2,3,6,7,8-HxCDD	0.174	0.696	0.535	--		0.535	0.2675	0.1	0.1	0.0	1.8%	1.2%
1,2,3,7,8,9-HxCDD	0.175	0.7	0.416	J		0.416	0.104	0.1	0.0	0.0	1.4%	0.5%
1,2,3,4,6,7,8-HpCDF	10.7	42.8		D	<5x*B	2.675		0.01	0.0		0.9%	0.0%
1,2,3,4,7,8,9-HpCDF	0.2	0.8	3.94	--		3.94	3.94	0.01	0.0	0.0	1.3%	1.8%
1,2,3,4,6,7,8-HpCDD	0.136	0.544	12.9	--		12.9	12.9	0.01	0.1	0.1	4.3%	5.8%
OCDF	0.188	0.752	73.2	--		73.2	73.2	0.0001	0.0	0.0	0.2%	0.3%
OCDD	0.151	0.604	112	--		112	112	0.0001	0.0	0.0	0.4%	0.5%
PCB-77	0.887	3.548	38	J		38	19	0.0001	0.0	0.0	0.1%	0.1%
PCB-81	0.985	3.94	1.31	J		1.31	0.3275	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	10.5	42	446	--		446	446	0.0001	0.0	0.0	1.5%	2.0%
PCB-114	10.2	40.8	23.4	--		23.4	11.7	0.0005	0.0	0.0	0.4%	0.3%
PCB-118	8.43	33.72	986	CJ		986	493	0.0001	0.1	0.0	3.3%	2.2%
PCB-123	8.91	35.64		--	<5x*B	4.455		0.0001	0.0		0.0%	0.0%
PCB-126	0.73	2.92	6.78	--		6.78	6.78	0.1	0.7	0.7	22.5%	30.5%
PCB-156	1.85	7.4	165	J		165	82.5	0.0005	0.1	0.0	2.7%	1.9%
PCB-157	1.96	7.84	35.6	J		35.6	17.8	0.0005	0.0	0.0	0.6%	0.4%
PCB-167	1.84	7.36	62.4	J		62.4	31.2	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.386	1.544	0.804	J		0.804	0.201	0.01	0.0	0.0	0.3%	0.1%
PCB-189	1.77	7.08	17.5	J		17.5	8.75	0.0001	0.0	0.0	0.1%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
2.1	1.4	0.9	0.8	3.0	2.2

Sample ID	692	Field		SP-12								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.0688	0.2752	0.58	NJ		0.29		0.1	0.0		0.8%	0.0%
2,3,7,8-TCDD	0.137	0.548	--		0.0685			1	0.1		1.9%	0.0%
1,2,3,7,8-PeCDF	0.166	0.664	3.77	--		3.77	3.77	0.05	0.2	0.2	5.2%	6.6%
2,3,4,7,8-PeCDF	0.141	0.564	0.944	--		0.944	0.944	0.5	0.5	0.5	12.9%	16.6%
1,2,3,7,8-PeCDD	0.122	0.488	0.412	B	<5x*B	0.412	0.103	1	0.4	0.1	11.3%	3.6%
1,2,3,4,7,8-HxCDF	0.512	2.048	6.94	--		6.94	6.94	0.1	0.7	0.7	19.0%	24.5%
1,2,3,6,7,8-HxCDF	0.456	1.824	3.87	--		3.87	3.87	0.1	0.4	0.4	10.6%	13.6%
2,3,4,6,7,8-HxCDF	0.637	2.548	1.92	--		1.92	0.96	0.1	0.2	0.1	5.3%	3.4%
1,2,3,7,8,9-HxCDF	0.783	3.132	1.89	B	<5x*B	1.89	0.4725	0.1	0.2	0.0	5.2%	1.7%
1,2,3,4,7,8-HxCDD	0.182	0.728	0.36	--		0.36	0.18	0.1	0.0	0.0	1.0%	0.6%
1,2,3,6,7,8-HxCDD	0.152	0.608	0.596	--		0.596	0.298	0.1	0.1	0.0	1.6%	1.1%
1,2,3,7,8,9-HxCDD	0.154	0.616	0.444	J		0.444	0.111	0.1	0.0	0.0	1.2%	0.4%
1,2,3,4,6,7,8-HpCDF	16.2	64.8	--	D	<5x*B	4.05		0.01	0.0		1.1%	0.0%
1,2,3,4,7,8,9-HpCDF	0.144	0.576	8	--		8	8	0.01	0.1	0.1	2.2%	2.8%
1,2,3,4,6,7,8-HpCDD	0.0915	0.366	11	--		11	11	0.01	0.1	0.1	3.0%	3.9%
OCDF	0.123	0.492	139	--		139	139	0.0001	0.0	0.0	0.4%	0.5%
OCDD	0.0868	0.3472	90.2	--		90.2	90.2	0.0001	0.0	0.0	0.3%	0.3%
PCB-77	0.763	3.052	24.6	BJ	<5x*B	24.6	12.3	0.0001	0.0	0.0	0.1%	0.0%
PCB-81	0.894	3.576	1.08	J		1.08	0.27	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	1.87	7.48	147	B	<5x*B	147	73.5	0.0001	0.0	0.0	0.4%	0.3%
PCB-114	1.82	7.28	7.94	B	<5x*B	7.94	3.97	0.0005	0.0	0.0	0.1%	0.1%
PCB-118	1.56	6.24	334	BJ	<5x*B	334	167	0.0001	0.0	0.0	0.9%	0.6%
PCB-123	1.65	6.6	--	<5x*B	0.825		0.0001	0.0			0.0%	0.0%
PCB-126	0.445	1.78	5.28	--		5.28	5.28	0.1	0.5	0.5	14.4%	18.6%
PCB-156	0.883	3.532	62.5	J		62.5	31.25	0.0005	0.0	0.0	0.9%	0.6%
PCB-157	0.939	3.756	15.7	BJ	<5x*B	15.7	7.85	0.0005	0.0	0.0	0.2%	0.1%
PCB-167	0.879	3.516	31.2	BJ	<5x*B	31.2	15.6	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.329	1.316	0.811	J		0.811	0.20275	0.01	0.0	0.0	0.2%	0.1%
PCB-189	1.41	5.64	13.1	J		13.1	6.55	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
3.0	2.3	0.6	0.6	3.7	2.8

Sample ID	515	Field		SP-2								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.688	2.752	7.58	NJ		3.79		0.1	0.4		1.7%	0.0%
2,3,7,8-TCDD	0.339	1.356		E		0.1695		1	0.2		0.8%	0.0%
1,2,3,7,8-PeCDF	0.228	0.912	34.9	--		34.9	34.9	0.05	1.7	1.7	7.9%	9.2%
2,3,4,7,8-PeCDF	0.196	0.784	7.1	--		7.1	7.1	0.5	3.6	3.6	16.0%	18.8%
1,2,3,7,8-PeCDD	0.369	1.476	1.07	B	<5x*B	1.07	0.2675	1	1.1	0.3	4.8%	1.4%
1,2,3,4,7,8-HxCDF	3.87	15.48	60.8	--		60.8	60.8	0.1	6.1	6.1	27.5%	32.2%
1,2,3,6,7,8-HxCDF	3.48	13.92	32.6	--		32.6	32.6	0.1	3.3	3.3	14.7%	17.3%
2,3,4,6,7,8-HxCDF	4.37	17.48	12.8	--		12.8	6.4	0.1	1.3	0.6	5.8%	3.4%
1,2,3,7,8,9-HxCDF	5.11	20.44	12.4	--		12.4	6.2	0.1	1.2	0.6	5.6%	3.3%
1,2,3,4,7,8-HxCDD	0.543	2.172	1.31	--		1.31	0.655	0.1	0.1	0.1	0.6%	0.3%
1,2,3,6,7,8-HxCDD	0.446	1.784	1.51	--		1.51	0.755	0.1	0.2	0.1	0.7%	0.4%
1,2,3,7,8,9-HxCDD	1.17	4.68		EJ		0.585		0.1	0.1		0.3%	0.0%
1,2,3,4,6,7,8-HpCDF	125	500		D	<5x*B	31.25		0.01	0.3		1.4%	0.0%
1,2,3,4,7,8,9-HpCDF	0.314	1.256	62.9	--		62.9	62.9	0.01	0.6	0.6	2.8%	3.3%
1,2,3,4,6,7,8-HpCDD	0.308	1.232	24.7	--		24.7	24.7	0.01	0.2	0.2	1.1%	1.3%
OCDF	0.223	0.892	892	--		892	892	0.0001	0.1	0.1	0.4%	0.5%
OCDD	0.193	0.772	178	--		178	178	0.0001	0.0	0.0	0.1%	0.1%
PCB-77	2.92	11.68	87.6	J		87.6	43.8	0.0001	0.0	0.0	0.0%	0.0%
PCB-81	3.43	13.72	10.4	J		10.4	2.6	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	6.37	25.48	448	--		448	448	0.0001	0.0	0.0	0.2%	0.2%
PCB-114	61	244		E	<5x*B	30.5		0.0005	0.0		0.1%	0.0%
PCB-118	5.23	20.92	872	CJ		872	436	0.0001	0.1	0.0	0.4%	0.2%
PCB-123	5.53	22.12		--	<5x*B	2.765		0.0001	0.0		0.0%	0.0%
PCB-126	0.569	2.276	14.4	--		14.4	14.4	0.1	1.4	1.4	6.5%	7.6%
PCB-156	7.76	31.04	146	J		146	73	0.0005	0.1	0.0	0.3%	0.2%
PCB-157	8.25	33	41.5	J		41.5	20.75	0.0005	0.0	0.0	0.1%	0.1%
PCB-167	7.73	30.92	79.6	J		79.6	39.8	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.632	2.528	2.52	J		2.52	0.63	0.01	0.0	0.0	0.1%	0.0%
PCB-189	13.9	55.6	27.5	J		27.5	6.875	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
20.4	17.3	1.7	1.6	22.1	18.9

Sample ID	282	Field		SP-3								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.587	2.348	7.85	NJ		3.925		0.1	0.4		1.2%	0.0%
2,3,7,8-TCDD	0.444	1.776	0.948	--		0.948	0.474	1	0.9	0.5	2.9%	1.6%
1,2,3,7,8-PeCDF	0.313	1.252	47.7	--		47.7	47.7	0.05	2.4	2.4	7.3%	8.0%
2,3,4,7,8-PeCDF	0.282	1.128	7.78	--		7.78	7.78	0.5	3.9	3.9	11.8%	13.1%
1,2,3,7,8-PeCDD	0.452	1.808	1.67	B	<5x*B	1.67	0.4175	1	1.7	0.4	5.1%	1.4%
1,2,3,4,7,8-HxCDF	3.04	12.16	86.9	--		86.9	86.9	0.1	8.7	8.7	26.4%	29.3%
1,2,3,6,7,8-HxCDF	2.73	10.92	47.6	--		47.6	47.6	0.1	4.8	4.8	14.5%	16.1%
2,3,4,6,7,8-HxCDF	3.49	13.96	20.2	--		20.2	20.2	0.1	2.0	2.0	6.1%	6.8%
1,2,3,7,8,9-HxCDF	4.21	16.84	19.6	--		19.6	19.6	0.1	2.0	2.0	6.0%	6.6%
1,2,3,4,7,8-HxCDD	1.49	5.96		E		0.745		0.1	0.1		0.2%	0.0%
1,2,3,6,7,8-HxCDD	0.509	2.036	2.19	--		2.19	2.19	0.1	0.2	0.2	0.7%	0.7%
1,2,3,7,8,9-HxCDD	0.5	2	1.69	J		1.69	0.4225	0.1	0.2	0.0	0.5%	0.1%
1,2,3,4,6,7,8-HpCDF	207	828		D	<5x*B	51.75		0.01	0.5		1.6%	0.0%
1,2,3,4,7,8,9-HpCDF	0.21	0.84	107	--		107	107	0.01	1.1	1.1	3.3%	3.6%
1,2,3,4,6,7,8-HpCDD	0.201	0.804	29.4	--		29.4	29.4	0.01	0.3	0.3	0.9%	1.0%
OCDF	0.14	0.56	1860	--		1860	1860	0.0001	0.2	0.2	0.6%	0.6%
OCDD	0.179	0.716	186	--		186	186	0.0001	0.0	0.0	0.1%	0.1%
PCB-77	5.11	20.44	737	J		737	368.5	0.0001	0.1	0.0	0.2%	0.1%
PCB-81	6.8	27.2	30.4	J		30.4	15.2	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	31.1	124.4	1800	CJ		1800	900	0.0001	0.2	0.1	0.5%	0.3%
PCB-114	30.3	121.2	98.4	--		98.4	49.2	0.0005	0.0	0.0	0.1%	0.1%
PCB-118	26.6	106.4	2620	CJ		2620	1310	0.0001	0.3	0.1	0.8%	0.4%
PCB-123	28.1	112.4		--	<5x*B	14.05		0.0001	0.0		0.0%	0.0%
PCB-126	1.42	5.68	28.8	--		28.8	28.8	0.1	2.9	2.9	8.8%	9.7%
PCB-156	3.92	15.68	171	J		171	85.5	0.0005	0.1	0.0	0.3%	0.1%
PCB-157	4.17	16.68	45.4	J		45.4	22.7	0.0005	0.0	0.0	0.1%	0.0%
PCB-167	3.9	15.6	81.5	J		81.5	40.75	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	1.32	5.28	3.42	J		3.42	0.855	0.01	0.0	0.0	0.1%	0.0%
PCB-189	11.3	45.2	40.8	J		40.8	10.2	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
29.3	26.4	3.6	3.2	32.9	29.7

Sample ID	909	Field		SP-4								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.303	1.212	1.38	NJ		0.69		0.1	0.1		1.2%	0.0%
2,3,7,8-TCDD	0.434	1.736	--			0.217		1	0.2		3.6%	0.0%
1,2,3,7,8-PeCDF	0.296	1.184	8.89	--		8.89	8.89	0.05	0.4	0.4	7.4%	9.2%
2,3,4,7,8-PeCDF	0.257	1.028	1.29	--		1.29	1.29	0.5	0.6	0.6	10.7%	13.3%
1,2,3,7,8-PeCDD	0.476	1.904		E	<5x*B	0.238		1	0.2		4.0%	0.0%
1,2,3,4,7,8-HxCDF	0.915	3.66	15.9	--		15.9	15.9	0.1	1.6	1.6	26.4%	32.7%
1,2,3,6,7,8-HxCDF	0.798	3.192	8.42	--		8.42	8.42	0.1	0.8	0.8	14.0%	17.3%
2,3,4,6,7,8-HxCDF	1.27	5.08	4.19	--		4.19	2.095	0.1	0.4	0.2	7.0%	4.3%
1,2,3,7,8,9-HxCDF	1.72	6.88	3.82	--		3.82	1.91	0.1	0.4	0.2	6.3%	3.9%
1,2,3,4,7,8-HxCDD	0.346	1.384	0.486	--		0.486	0.243	0.1	0.0	0.0	0.8%	0.5%
1,2,3,6,7,8-HxCDD	0.295	1.18	0.843	--		0.843	0.4215	0.1	0.1	0.0	1.4%	0.9%
1,2,3,7,8,9-HxCDD	0.668	2.672		EJ		0.334		0.1	0.0		0.6%	0.0%
1,2,3,4,6,7,8-HpCDF	40.5	162		D	<5x*B	10.125		0.01	0.1		1.7%	0.0%
1,2,3,4,7,8,9-HpCDF	0.576	2.304	19.4	--		19.4	19.4	0.01	0.2	0.2	3.2%	4.0%
1,2,3,4,6,7,8-HpCDD	0.246	0.984	10.7	--		10.7	10.7	0.01	0.1	0.1	1.8%	2.2%
OCDF	0.33	1.32	435	--		435	435	0.0001	0.0	0.0	0.7%	0.9%
OCDD	0.389	1.556	84.3	--		84.3	84.3	0.0001	0.0	0.0	0.1%	0.2%
PCB-77	0.936	3.744	31.2	BJ	<5x*B	31.2	15.6	0.0001	0.0	0.0	0.1%	0.0%
PCB-81	1.03	4.12	1.8	J		1.8	0.45	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	3.37	13.48	116	B	<5x*B	116	58	0.0001	0.0	0.0	0.2%	0.1%
PCB-114	3.29	13.16	5.8	B	<5x*B	5.8	1.45	0.0005	0.0	0.0	0.1%	0.0%
PCB-118	2.86	11.44	227	BJ	<5x*B	227	113.5	0.0001	0.0	0.0	0.4%	0.2%
PCB-123	3.02	12.08	--		<5x*B	1.51		0.0001	0.0		0.0%	0.0%
PCB-126	0.983	3.932	4.84	--		4.84	4.84	0.1	0.5	0.5	8.0%	10.0%
PCB-156	2.21	8.84	38	BJ	<5x*B	38	19	0.0005	0.0	0.0	0.3%	0.2%
PCB-157	2.35	9.4	11.1	BJ	<5x*B	11.1	5.55	0.0005	0.0	0.0	0.1%	0.1%
PCB-167	2.2	8.8	21.7	BJ	<5x*B	21.7	10.85	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.398	1.592	0.849	J		0.849	0.21225	0.01	0.0	0.0	0.1%	0.0%
PCB-189	2.97	11.88	5.85	J		5.85	1.4625	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
5.5	4.3	0.6	0.5	6.0	4.9

Sample ID	218	Field		SP-5								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.376	1.504	0.444	NJ		0.222		0.1	0.0		0.8%	0.0%
2,3,7,8-TCDD	0.169	0.676	--		0.0845			1	0.1		3.1%	0.0%
1,2,3,7,8-PeCDF	0.198	0.792	1.02	--		1.02	1.02	0.05	0.1	0.1	1.9%	2.7%
2,3,4,7,8-PeCDF	0.172	0.688	0.507	--		0.507	0.2535	0.5	0.3	0.1	9.4%	6.8%
1,2,3,7,8-PeCDD	0.505	2.02	--	E	<5x*B	0.2525		1	0.3		9.3%	0.0%
1,2,3,4,7,8-HxCDF	0.458	1.832	2.14	--		2.14	2.14	0.1	0.2	0.2	7.9%	11.4%
1,2,3,6,7,8-HxCDF	0.385	1.54	1.58	B	<5x*B	1.58	0.79	0.1	0.2	0.1	5.8%	4.2%
2,3,4,6,7,8-HxCDF	0.518	2.072	1.07	B	<5x*B	1.07	0.2675	0.1	0.1	0.0	4.0%	1.4%
1,2,3,7,8,9-HxCDF	0.622	2.488	0.751	B	<5x*B	0.751	0.18775	0.1	0.1	0.0	2.8%	1.0%
1,2,3,4,7,8-HxCDD	0.139	0.556	0.626	--		0.626	0.626	0.1	0.1	0.1	2.3%	3.3%
1,2,3,6,7,8-HxCDD	0.12	0.48	1.21	--		1.21	1.21	0.1	0.1	0.1	4.5%	6.5%
1,2,3,7,8,9-HxCDD	0.12	0.48	0.93	J		0.93	0.465	0.1	0.1	0.0	3.4%	2.5%
1,2,3,4,6,7,8-HpCDF	9.53	38.12	--	D	<5x*B	2.3825		0.01	0.0		0.9%	0.0%
1,2,3,4,7,8,9-HpCDF	0.204	0.816	2.34	--		2.34	2.34	0.01	0.0	0.0	0.9%	1.3%
1,2,3,4,6,7,8-HpCDD	0.0477	0.1908	26.4	--		26.4	26.4	0.01	0.3	0.3	9.8%	14.1%
OCDF	0.16	0.64	36.5	B	<5x*B	36.5	18.25	0.0001	0.0	0.0	0.1%	0.1%
OCDD	0.11	0.44	203	--		203	203	0.0001	0.0	0.0	0.8%	1.1%
PCB-77	0.464	1.856	33.1	J		33.1	16.55	0.0001	0.0	0.0	0.1%	0.1%
PCB-81	0.524	2.096	1.28	J		1.28	0.32	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	2.45	9.8	164	B	<5x*B	164	82	0.0001	0.0	0.0	0.6%	0.4%
PCB-114	2.39	9.56	7.54	B	<5x*B	7.54	1.885	0.0005	0.0	0.0	0.1%	0.1%
PCB-118	1.97	7.88	361	BJ	<5x*B	361	180.5	0.0001	0.0	0.0	1.3%	1.0%
PCB-123	2.08	8.32	--	<5x*B	1.04		0.0001	0.0			0.0%	0.0%
PCB-126	0.403	1.612	7.61	--		7.61	7.61	0.1	0.8	0.8	28.1%	40.7%
PCB-156	0.944	3.776	70.6	J		70.6	35.3	0.0005	0.0	0.0	1.3%	0.9%
PCB-157	1	4	18.5	J		18.5	9.25	0.0005	0.0	0.0	0.3%	0.2%
PCB-167	0.94	3.76	33.4	BJ	<5x*B	33.4	16.7	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.299	1.196	1.01	J		1.01	0.2525	0.01	0.0	0.0	0.4%	0.1%
PCB-189	1.84	7.36	7.02	J		7.02	1.755	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
1.8	1.1	0.9	0.8	2.7	1.9

Sample ID	523	Field		SP-6								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.294	1.176	3.1	NJ		1.55		0.1	0.2		1.1%	0.0%
2,3,7,8-TCDD	0.179	0.716	0.394	--		0.394	0.197	1	0.4	0.2	2.8%	1.6%
1,2,3,7,8-PeCDF	0.251	1.004	14.7	--		14.7	14.7	0.05	0.7	0.7	5.2%	6.0%
2,3,4,7,8-PeCDF	0.221	0.884	3.58	--		3.58	3.58	0.5	1.8	1.8	12.7%	14.5%
1,2,3,7,8-PeCDD	0.285	1.14	0.89	B	<5x*B	0.89	0.2225	1	0.9	0.2	6.3%	1.8%
1,2,3,4,7,8-HxCDF	0.855	3.42	26	--		26	26	0.1	2.6	2.6	18.4%	21.1%
1,2,3,6,7,8-HxCDF	0.74	2.96	13.9	--		13.9	13.9	0.1	1.4	1.4	9.8%	11.3%
2,3,4,6,7,8-HxCDF	0.998	3.992	6.49	--		6.49	6.49	0.1	0.6	0.6	4.6%	5.3%
1,2,3,7,8,9-HxCDF	1.23	4.92	5.48	--		5.48	5.48	0.1	0.5	0.5	3.9%	4.4%
1,2,3,4,7,8-HxCDD	0.373	1.492	1.18	--		1.18	0.59	0.1	0.1	0.1	0.8%	0.5%
1,2,3,6,7,8-HxCDD	0.327	1.308	1.94	--		1.94	1.94	0.1	0.2	0.2	1.4%	1.6%
1,2,3,7,8,9-HxCDD	0.324	1.296	1.41	J		1.41	0.705	0.1	0.1	0.1	1.0%	0.6%
1,2,3,4,6,7,8-HpCDF	59.1	236.4		D	<5x*B	14.775		0.01	0.1		1.0%	0.0%
1,2,3,4,7,8,9-HpCDF	0.295	1.18	26	--		26	26	0.01	0.3	0.3	1.8%	2.1%
1,2,3,4,6,7,8-HpCDD	0.297	1.188	42.9	--		42.9	42.9	0.01	0.4	0.4	3.0%	3.5%
OCDF	0.196	0.784	352	--		352	352	0.0001	0.0	0.0	0.2%	0.3%
OCDD	0.193	0.772	328	--		328	328	0.0001	0.0	0.0	0.2%	0.3%
PCB-77	1.85	7.4	161	J		161	80.5	0.0001	0.0	0.0	0.1%	0.1%
PCB-81	2.22	8.88	4.65	J		4.65	1.1625	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	40.1	160.4	1690	CJ		1690	845	0.0001	0.2	0.1	1.2%	0.7%
PCB-114	39.1	156.4	96.1	--		96.1	48.05	0.0005	0.0	0.0	0.3%	0.2%
PCB-118	32.2	128.8	3930	CJ		3930	1965	0.0001	0.4	0.2	2.8%	1.6%
PCB-123	34.1	136.4		--	<5x*B	17.05		0.0001	0.0		0.0%	0.0%
PCB-126	1.28	5.12	26.2	--		26.2	26.2	0.1	2.6	2.6	18.5%	21.3%
PCB-156	3.67	14.68	559	CJ		559	279.5	0.0005	0.3	0.1	2.0%	1.1%
PCB-157	3.9	15.6	133	J		133	66.5	0.0005	0.1	0.0	0.5%	0.3%
PCB-167	3.65	14.6	232	J		232	116	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	1.2	4.8	2.76	J		2.76	0.69	0.01	0.0	0.0	0.2%	0.1%
PCB-189	7.05	28.2	41.5	IJ		41.5	20.75	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
10.5	9.2	3.6	3.1	14.1	12.3

Sample ID	347	Field		SP-7								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.738	2.952	20.3	NJ		10.15		0.1	1.0		1.0%	0.0%
2,3,7,8-TCDD	0.276	1.104	0.989	--		0.989	0.4945	1	1.0	0.5	1.0%	0.5%
1,2,3,7,8-PeCDF	0.459	1.836	131	--		131	131	0.05	6.6	6.6	6.5%	7.3%
2,3,4,7,8-PeCDF	0.412	1.648	26.6	--		26.6	26.6	0.5	13.3	13.3	13.2%	14.7%
1,2,3,7,8-PeCDD	0.181	0.724	8.53	--		8.53	8.53	1	8.5	8.5	8.5%	9.5%
1,2,3,4,7,8-HxCDF	12.6	50.4	241	--		241	241	0.1	24.1	24.1	23.9%	26.7%
1,2,3,6,7,8-HxCDF	11.4	45.6	124	--		124	124	0.1	12.4	12.4	12.3%	13.7%
2,3,4,6,7,8-HxCDF	16.3	65.2	61.5	--		61.5	30.75	0.1	6.2	3.1	6.1%	3.4%
1,2,3,7,8,9-HxCDF	18.5	74	59.7	--		59.7	29.85	0.1	6.0	3.0	5.9%	3.3%
1,2,3,4,7,8-HxCDD	0.742	2.968	13	--		13	13	0.1	1.3	1.3	1.3%	1.4%
1,2,3,6,7,8-HxCDD	0.651	2.604	19.8	--		19.8	19.8	0.1	2.0	2.0	2.0%	2.2%
1,2,3,7,8,9-HxCDD	0.646	2.584	12.9	J		12.9	6.45	0.1	1.3	0.6	1.3%	0.7%
1,2,3,4,6,7,8-HpCDF	531	2120		D	<5x*B	132.75		0.01	1.3		1.3%	0.0%
1,2,3,4,7,8,9-HpCDF	0.462	1.848	278	--		278	278	0.01	2.8	2.8	2.8%	3.1%
1,2,3,4,6,7,8-HpCDD	0.556	2.224	530	--		530	530	0.01	5.3	5.3	5.3%	5.9%
OCDF	0.245	0.98	2770	SJ		2770	1385	0.0001	0.3	0.1	0.3%	0.2%
OCDD	0.338	1.352	3530	SJ		3530	1765	0.0001	0.4	0.2	0.3%	0.2%
PCB-77	1.61	6.44	249	J		249	124.5	0.0001	0.0	0.0	0.0%	0.0%
PCB-81	1.96	7.84	8.21	J		8.21	4.105	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	40.3	161.2	2390	CJ		2390	1195	0.0001	0.2	0.1	0.2%	0.1%
PCB-114	39.3	157.2	124	--		124	62	0.0005	0.1	0.0	0.1%	0.0%
PCB-118	30.8	123.2	5140	CJ		5140	2570	0.0001	0.5	0.3	0.5%	0.3%
PCB-123	32.6	130.4		--	<5x*B	16.3		0.0001	0.0		0.0%	0.0%
PCB-126	1.09	4.36	56.6	--		56.6	56.6	0.1	5.7	5.7	5.6%	6.3%
PCB-156	26.1	104.4	1090	CJ		1090	545	0.0005	0.5	0.3	0.5%	0.3%
PCB-157	27.8	111.2	257	J		257	128.5	0.0005	0.1	0.1	0.1%	0.1%
PCB-167	26	104	552	CJ		552	276	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	4.11	16.44	10.8	J		10.8	2.7	0.01	0.1	0.0	0.1%	0.0%
PCB-189	19.9	79.6	161	J		161	80.5	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
93.6	83.8	7.3	6.5	100.9	90.2

Sample ID	555	Field		SP-8								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.603	2.412	7.39	NJ		3.695		0.1	0.4		1.1%	0.0%
2,3,7,8-TCDD	0.432	1.728		E		0.216		1	0.2		0.6%	0.0%
1,2,3,7,8-PeCDF	0.286	1.144	56.2	--		56.2	56.2	0.05	2.8	2.8	8.3%	9.6%
2,3,4,7,8-PeCDF	0.234	0.936	9.69	--		9.69	9.69	0.5	4.8	4.8	14.3%	16.5%
1,2,3,7,8-PeCDD	1.84	7.36		E	<5x*B	0.92		1	0.9		2.7%	0.0%
1,2,3,4,7,8-HxCDF	6.35	25.4	93.3	--		93.3	93.3	0.1	9.3	9.3	27.5%	31.7%
1,2,3,6,7,8-HxCDF	5.32	21.28	49.7	--		49.7	49.7	0.1	5.0	5.0	14.7%	16.9%
2,3,4,6,7,8-HxCDF	7.24	28.96	22.1	--		22.1	11.05	0.1	2.2	1.1	6.5%	3.8%
1,2,3,7,8,9-HxCDF	8.42	33.68	20.3	--		20.3	10.15	0.1	2.0	1.0	6.0%	3.5%
1,2,3,4,7,8-HxCDD	0.571	2.284	2.66	--		2.66	2.66	0.1	0.3	0.3	0.8%	0.9%
1,2,3,6,7,8-HxCDD	0.469	1.876	4.34	--		4.34	4.34	0.1	0.4	0.4	1.3%	1.5%
1,2,3,7,8,9-HxCDD	0.475	1.9	3.41	J		3.41	1.705	0.1	0.3	0.2	1.0%	0.6%
1,2,3,4,6,7,8-HpCDF	203	812		D	<5x*B	50.75		0.01	0.5		1.5%	0.0%
1,2,3,4,7,8,9-HpCDF	0.256	1.024	100	--		100	100	0.01	1.0	1.0	2.9%	3.4%
1,2,3,4,6,7,8-HpCDD	0.146	0.584	78.1	--		78.1	78.1	0.01	0.8	0.8	2.3%	2.7%
OCDF	0.104	0.416	1390	--		1390	1390	0.0001	0.1	0.1	0.4%	0.5%
OCDD	0.131	0.524	460	--		460	460	0.0001	0.0	0.0	0.1%	0.2%
PCB-77	4.31	17.24	163	J		163	81.5	0.0001	0.0	0.0	0.0%	0.0%
PCB-81	4.65	18.6	6.86	J		6.86	1.715	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	15.5	62	1170	CJ		1170	585	0.0001	0.1	0.1	0.3%	0.2%
PCB-114	15.1	60.4	66.2	--		66.2	66.2	0.0005	0.0	0.0	0.1%	0.1%
PCB-118	12.8	51.2	2460	CJ		2460	1230	0.0001	0.2	0.1	0.7%	0.4%
PCB-123	13.5	54		--	<5x*B	6.75		0.0001	0.0		0.0%	0.0%
PCB-126	1	4	20.3	--		20.3	20.3	0.1	2.0	2.0	6.0%	6.9%
PCB-156	4.35	17.4	344	--		344	344	0.0005	0.2	0.2	0.5%	0.6%
PCB-157	4.63	18.52	87.3	--		87.3	87.3	0.0005	0.0	0.0	0.1%	0.1%
PCB-167	4.33	17.32	154	--		154	154	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.984	3.936	3.36	--		3.36	1.68	0.01	0.0	0.0	0.1%	0.1%
PCB-189	7.49	29.96	42.7	--		42.7	42.7	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
31.2	26.9	2.7	2.5	33.9	29.4

Sample ID	497	Field		SP-9								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.447	1.788	0.717	NJ		0.3585		0.1	0.0		0.9%	0.0%
2,3,7,8-TCDD	0.123	0.492		--		0.0615		1	0.1		1.6%	0.0%
1,2,3,7,8-PeCDF	0.221	0.884	4.73	--		4.73	4.73	0.05	0.2	0.2	6.1%	8.1%
2,3,4,7,8-PeCDF	0.192	0.768	0.906	--		0.906	0.906	0.5	0.5	0.5	11.7%	15.6%
1,2,3,7,8-PeCDD	0.443	1.772		E	<5x*B	0.2215		1	0.2		5.7%	0.0%
1,2,3,4,7,8-HxCDF	0.523	2.092	8.86	--		8.86	8.86	0.1	0.9	0.9	23.0%	30.5%
1,2,3,6,7,8-HxCDF	0.461	1.844	5.06	--		5.06	5.06	0.1	0.5	0.5	13.1%	17.4%
2,3,4,6,7,8-HxCDF	0.557	2.228	2.16	--		2.16	1.08	0.1	0.2	0.1	5.6%	3.7%
1,2,3,7,8,9-HxCDF	0.633	2.532	2.18	B	<5x*B	2.18	0.545	0.1	0.2	0.1	5.6%	1.9%
1,2,3,4,7,8-HxCDD	0.113	0.452	0.457	--		0.457	0.457	0.1	0.0	0.0	1.2%	1.6%
1,2,3,6,7,8-HxCDD	0.0954	0.3816	0.715	--		0.715	0.715	0.1	0.1	0.1	1.9%	2.5%
1,2,3,7,8,9-HxCDD	0.0962	0.3848	0.666	J		0.666	0.333	0.1	0.1	0.0	1.7%	1.1%
1,2,3,4,6,7,8-HpCDF	22.5	90		D	<5x*B	5.625		0.01	0.1		1.5%	0.0%
1,2,3,4,7,8,9-HpCDF	0.127	0.508	9.97	--		9.97	9.97	0.01	0.1	0.1	2.6%	3.4%
1,2,3,4,6,7,8-HpCDD	0.118	0.472	9.88	--		9.88	9.88	0.01	0.1	0.1	2.6%	3.4%
OCDF	0.0927	0.3708	153	--		153	153	0.0001	0.0	0.0	0.4%	0.5%
OCDD	0.0911	0.3644	75.4	--		75.4	75.4	0.0001	0.0	0.0	0.2%	0.3%
PCB-77	1.67	6.68	18.5	BJ	<5x*B	18.5	9.25	0.0001	0.0	0.0	0.0%	0.0%
PCB-81	0.212	0.848	1.05	J		1.05	0.525	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	10.9	43.6	278	--		278	278	0.0001	0.0	0.0	0.7%	1.0%
PCB-114	10.7	42.8	17.1	--		17.1	8.55	0.0005	0.0	0.0	0.2%	0.1%
PCB-118	8.32	33.28	641	CJ		641	320.5	0.0001	0.1	0.0	1.7%	1.1%
PCB-123	8.81	35.24		--	<5x*B	4.405		0.0001	0.0		0.0%	0.0%
PCB-126	1.42	5.68	3.88	--		3.88	1.94	0.1	0.4	0.2	10.1%	6.7%
PCB-156	14.8	59.2	103	J		103	51.5	0.0005	0.1	0.0	1.3%	0.9%
PCB-157	15.7	62.8	26	J		26	6.5	0.0005	0.0	0.0	0.3%	0.1%
PCB-167	14.7	58.8	42.9	BJ	<5x*B	42.9	10.725	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.204	0.816	0.645	J		0.645	0.16125	0.01	0.0	0.0	0.2%	0.1%
PCB-189	36.1	144.4		J		18.05		0.0001	0.0		0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
3.3	2.6	0.6	0.3	3.9	2.9

Sample ID	282-B	Bulk	SP-3									
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.221	0.884	7.37	NJ		3.685		0.1	0.4		1.3%	0.0%
2,3,7,8-TCDD	0.105	0.42	1.3	--		1.3	1.3	1	1.3	1.3	4.6%	4.9%
1,2,3,7,8-PeCDF	0.0877	0.3508	42.7	--		42.7	42.7	0.05	2.1	2.1	7.5%	8.1%
2,3,4,7,8-PeCDF	0.0592	0.2368	5.92	--		5.92	5.92	0.5	3.0	3.0	10.4%	11.2%
1,2,3,7,8-PeCDD	0.245	0.98	1.52	--		1.52	1.52	1	1.5	1.5	5.3%	5.8%
1,2,3,4,7,8-HxCDF	0.294	1.176	66.8	--		66.8	66.8	0.1	6.7	6.7	23.4%	25.3%
1,2,3,6,7,8-HxCDF	0.203	0.812	37.8	--		37.8	37.8	0.1	3.8	3.8	13.3%	14.3%
2,3,4,6,7,8-HxCDF	0.301	1.204	16.5	--		16.5	16.5	0.1	1.7	1.7	5.8%	6.3%
1,2,3,7,8,9-HxCDF	0.359	1.436	16.3	--		16.3	16.3	0.1	1.6	1.6	5.7%	6.2%
1,2,3,4,7,8-HxCDD	1.05	4.2		E		0.525		0.1	0.1		0.2%	0.0%
1,2,3,6,7,8-HxCDD	0.0742	0.2968	1.99	--		1.99	1.99	0.1	0.2	0.2	0.7%	0.8%
1,2,3,7,8,9-HxCDD	0.0878	0.3512	1.23	J		1.23	0.615	0.1	0.1	0.1	0.4%	0.2%
1,2,3,4,6,7,8-HpCDF	0.0766	0.3064	173	--		173	173	0.01	1.7	1.7	6.1%	6.6%
1,2,3,4,7,8,9-HpCDF	0.102	0.408	74.8	--		74.8	74.8	0.01	0.7	0.7	2.6%	2.8%
1,2,3,4,6,7,8-HpCDD	0.198	0.792	23	--		23	23	0.01	0.2	0.2	0.8%	0.9%
OCDF	0.0448	0.1792	1070	SJ		1070	535	0.0001	0.1	0.1	0.4%	0.2%
OCDD	0.0634	0.2536	169	--		169	169	0.0001	0.0	0.0	0.1%	0.1%
PCB-77	0.295	1.18	559	CJ		559	279.5	0.0001	0.1	0.0	0.2%	0.1%
PCB-81	0.29	1.16	21.9	--		21.9	21.9	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	4	16	1790	CJ		1790	895	0.0001	0.2	0.1	0.6%	0.3%
PCB-114	4.18	16.72	90.7	J		90.7	45.35	0.0005	0.0	0.0	0.2%	0.1%
PCB-118	4.44	17.76	2400	CJ		2400	1200	0.0001	0.2	0.1	0.8%	0.5%
PCB-123	5.05	20.2	95.3	J		95.3	47.65	0.0001	0.0	0.0	0.0%	0.0%
PCB-126	0.431	1.724	26.1	J		26.1	13.05	0.1	2.6	1.3	9.2%	4.9%
PCB-156	1.02	4.08	136	--		136	136	0.0005	0.1	0.1	0.2%	0.3%
PCB-157	1.05	4.2	35.6	--		35.6	35.6	0.0005	0.0	0.0	0.1%	0.1%
PCB-167	1.04	4.16	72.8	--		72.8	72.8	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.173	0.692	2.71	J		2.71	1.355	0.01	0.0	0.0	0.1%	0.1%
PCB-189	0.529	2.116	21.7	--		21.7	21.7	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
25.2	24.7	3.3	1.7	28.5	26.4

Sample ID	347-B	<i>Bulk</i>		SP-7									
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	1.56	6.24	17.4	NJ		8.7		0.1	0.9		1.1%	0.0%	
2,3,7,8-TCDD	0.0981	0.3924	0.881	--		0.881	0.881	1	0.9	0.9	1.1%	1.1%	
1,2,3,7,8-PeCDF	0.0874	0.3496	118	--		118	118	0.05	5.9	5.9	7.3%	7.5%	
2,3,4,7,8-PeCDF	0.0742	0.2968	19.9	--		19.9	19.9	0.5	10.0	10.0	12.3%	12.6%	
1,2,3,7,8-PeCDD	0.0136	0.0544	5.52	--		5.52	5.52	1	5.5	5.5	6.8%	7.0%	
1,2,3,4,7,8-HxCDF	0.148	0.592	183	--		183	183	0.1	18.3	18.3	22.6%	23.2%	
1,2,3,6,7,8-HxCDF	0.129	0.516	96.2	--		96.2	96.2	0.1	9.6	9.6	11.9%	12.2%	
2,3,4,6,7,8-HxCDF	0.17	0.68	41.6	--		41.6	41.6	0.1	4.2	4.2	5.1%	5.3%	
1,2,3,7,8,9-HxCDF	0.197	0.788	48.7	--		48.7	48.7	0.1	4.9	4.9	6.0%	6.2%	
1,2,3,4,7,8-HxCDD	0.123	0.492	8.31	--		8.31	8.31	0.1	0.8	0.8	1.0%	1.1%	
1,2,3,6,7,8-HxCDD	0.112	0.448	14.2	--		14.2	14.2	0.1	1.4	1.4	1.8%	1.8%	
1,2,3,7,8,9-HxCDD	0.122	0.488	8.83	--		8.83	8.83	0.1	0.9	0.9	1.1%	1.1%	
1,2,3,4,6,7,8-HpCDF	0.243	0.972	476	--		476	476	0.01	4.8	4.8	5.9%	6.0%	
1,2,3,4,7,8,9-HpCDF	0.362	1.448	234	--		234	234	0.01	2.3	2.3	2.9%	3.0%	
1,2,3,4,6,7,8-HpCDD	0.274	1.096	370	--		370	370	0.01	3.7	3.7	4.6%	4.7%	
OCDF	0.0578	0.2312	2660	CJ		2660	1330	0.0001	0.3	0.1	0.3%	0.2%	
OCDD	0.119	0.476	3070	CJ		3070	1535	0.0001	0.3	0.2	0.4%	0.2%	
PCB-77	1.11	4.44	174	--		174	174	0.0001	0.0	0.0	0.0%	0.0%	
PCB-81	1.09	4.36	7.09	--		7.09	7.09	0.0001	0.0	0.0	0.0%	0.0%	
PCB-105	5.7	22.8	2760	CJ		2760	1380	0.0001	0.3	0.1	0.3%	0.2%	
PCB-114	5.66	22.64	236	--		236	236	0.0005	0.1	0.1	0.1%	0.1%	
PCB-118	4.27	17.08	6280	CJ		6280	3140	0.0001	0.6	0.3	0.8%	0.4%	
PCB-123	4.8	19.2	--			2.4		0.0001	0.0		0.0%	0.0%	
PCB-126	2.77	11.08	44	--		44	44	0.1	4.4	4.4	5.4%	5.6%	
PCB-156	1.94	7.76	1250	CJ		1250	625	0.0005	0.6	0.3	0.8%	0.4%	
PCB-157	2.05	8.2	303	--		303	303	0.0005	0.2	0.2	0.2%	0.2%	
PCB-167	1.89	7.56	583	CJ		583	291.5	0.00001	0.0	0.0	0.0%	0.0%	
PCB-169	0.193	0.772	6.82	--		6.82	6.82	0.01	0.1	0.1	0.1%	0.1%	
PCB-189	3.59	14.36	223	--		223	223	0.0001	0.0	0.0	0.0%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
74.6	73.4	6.3	5.5	80.9	79.0

Sample ID	515-B	<i>Bulk</i>		SP-2									
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	0.346	1.384	7.47	NJ		3.735		0.1	0.4		1.9%	0.0%	
2,3,7,8-TCDD	0.136	0.544	--			0.068		1	0.1		0.3%	0.0%	
1,2,3,7,8-PeCDF	0.0865	0.346	30.1	--		30.1	30.1	0.05	1.5	1.5	7.6%	7.8%	
2,3,4,7,8-PeCDF	0.0689	0.2756	4.97	--		4.97	4.97	0.5	2.5	2.5	12.5%	12.9%	
1,2,3,7,8-PeCDD	0.0341	0.1364	0.697	--		0.697	0.697	1	0.7	0.7	3.5%	3.6%	
1,2,3,4,7,8-HxCDF	0.0745	0.298	51.7	--		51.7	51.7	0.1	5.2	5.2	26.1%	26.9%	
1,2,3,6,7,8-HxCDF	0.0648	0.2592	26.5	--		26.5	26.5	0.1	2.7	2.7	13.4%	13.8%	
2,3,4,6,7,8-HxCDF	0.0753	0.3012	10.1	--		10.1	10.1	0.1	1.0	1.0	5.1%	5.3%	
1,2,3,7,8,9-HxCDF	0.0815	0.326	11.5	--		11.5	11.5	0.1	1.2	1.2	5.8%	6.0%	
1,2,3,4,7,8-HxCDD	0.0848	0.3392	1.27	--		1.27	1.27	0.1	0.1	0.1	0.6%	0.7%	
1,2,3,6,7,8-HxCDD	0.0797	0.3188	1.53	--		1.53	1.53	0.1	0.2	0.2	0.8%	0.8%	
1,2,3,7,8,9-HxCDD	1.03	4.12	E			0.515		0.1	0.1		0.3%	0.0%	
1,2,3,4,6,7,8-HpCDF	0.102	0.408	147	--		147	147	0.01	1.5	1.5	7.4%	7.7%	
1,2,3,4,7,8,9-HpCDF	0.149	0.596	74.1	--		74.1	74.1	0.01	0.7	0.7	3.7%	3.9%	
1,2,3,4,6,7,8-HpCDD	0.0608	0.2432	24	--		24	24	0.01	0.2	0.2	1.2%	1.3%	
OCDF	0.0467	0.1868	1830	CJ		1830	915	0.0001	0.2	0.1	0.9%	0.5%	
OCDD	0.0793	0.3172	176	--		176	176	0.0001	0.0	0.0	0.1%	0.1%	
PCB-77	0.436	1.744	76	--		76	76	0.0001	0.0	0.0	0.0%	0.0%	
PCB-81	0.383	1.532	7.87	--		7.87	7.87	0.0001	0.0	0.0	0.0%	0.0%	
PCB-105	1.66	6.64	401	--		401	401	0.0001	0.0	0.0	0.2%	0.2%	
PCB-114	1.65	6.6	--		<5x*B	0.825		0.0005	0.0		0.0%	0.0%	
PCB-118	1.32	5.28	777	CJ		777	388.5	0.0001	0.1	0.0	0.4%	0.2%	
PCB-123	1.49	5.96	--			0.745		0.0001	0.0		0.0%	0.0%	
PCB-126	2.21	8.84	14.8	--		14.8	14.8	0.1	1.5	1.5	7.5%	7.7%	
PCB-156	2.41	9.64	142	--		142	142	0.0005	0.1	0.1	0.4%	0.4%	
PCB-157	2.55	10.2	41.3	--		41.3	41.3	0.0005	0.0	0.0	0.1%	0.1%	
PCB-167	2.35	9.4	78.3	--		78.3	78.3	0.00001	0.0	0.0	0.0%	0.0%	
PCB-169	0.238	0.952	1.98	--		1.98	1.98	0.01	0.0	0.0	0.1%	0.1%	
PCB-189	5.32	21.28	25.5	--		25.5	25.5	0.0001	0.0	0.0	0.0%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
18.1	17.5	1.7	1.7	19.8	19.2

Sample ID	523-B	<i>Bulk</i>		SP-6									
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	0.589	2.36	3.19	NJ		1.595		0.1	0.2		1.2%	0.0%	
2,3,7,8-TCDD	0.166	0.664	0.483	--		0.483	0.2415	1	0.5	0.2	3.6%	2.1%	
1,2,3,7,8-PeCDF	0.183	0.732	14	--		14	14	0.05	0.7	0.7	5.3%	6.2%	
2,3,4,7,8-PeCDF	0.163	0.652	3.52	--		3.52	3.52	0.5	1.8	1.8	13.3%	15.6%	
1,2,3,7,8-PeCDD	0.885	3.536		E	<5x*B	0.4425		1	0.4		3.3%	0.0%	
1,2,3,4,7,8-HxCDF	2.27	9.08	25.3	--		25.3	25.3	0.1	2.5	2.5	19.1%	22.5%	
1,2,3,6,7,8-HxCDF	1.97	7.88	13.6	--		13.6	13.6	0.1	1.4	1.4	10.3%	12.1%	
2,3,4,6,7,8-HxCDF	2.64	10.56	6.68	--		6.68	3.34	0.1	0.7	0.3	5.0%	3.0%	
1,2,3,7,8,9-HxCDF	3.51	14.04	5.72	--		5.72	2.86	0.1	0.6	0.3	4.3%	2.5%	
1,2,3,4,7,8-HxCDD	0.346	1.384	1.27	--		1.27	0.635	0.1	0.1	0.1	1.0%	0.6%	
1,2,3,6,7,8-HxCDD	0.305	1.22	1.7	--		1.7	1.7	0.1	0.2	0.2	1.3%	1.5%	
1,2,3,7,8,9-HxCDD	0.301	1.204	1.27	J		1.27	0.635	0.1	0.1	0.1	1.0%	0.6%	
1,2,3,4,6,7,8-HpCDF	56.5	225.6		D	<5x*B	14.125		0.01	0.1		1.1%	0.0%	
1,2,3,4,7,8,9-HpCDF	0.398	1.592	27.9	--		27.9	27.9	0.01	0.3	0.3	2.1%	2.5%	
1,2,3,4,6,7,8-HpCDD	0.169	0.676	40.9	--		40.9	40.9	0.01	0.4	0.4	3.1%	3.6%	
OCDF	0.137	0.548	429	--		429	429	0.0001	0.0	0.0	0.3%	0.4%	
OCDD	0.172	0.688	305	--		305	305	0.0001	0.0	0.0	0.2%	0.3%	
PCB-77	4.48	17.92	147	J		147	73.5	0.0001	0.0	0.0	0.1%	0.1%	
PCB-81	5.49	22	4.72	J		2.745		0.0001	0.0		0.0%	0.0%	
PCB-105	29.8	119.2	1440	CJ		1440	720	0.0001	0.1	0.1	1.1%	0.6%	
PCB-114	29.1	116.4		--	<5x*B	14.55		0.0005	0.0		0.1%	0.0%	
PCB-118	23.2	92.8	3220	CJ		3220	1610	0.0001	0.3	0.2	2.4%	1.4%	
PCB-123	24.6	98.4		--	<5x*B	12.3		0.0001	0.0		0.0%	0.0%	
PCB-126	2.7	10.8	24.4	--		24.4	24.4	0.1	2.4	2.4	18.4%	21.7%	
PCB-156	6.35	25.36	462	--		462	462	0.0005	0.2	0.2	1.7%	2.1%	
PCB-157	6.75	26.96	109	--		109	109	0.0005	0.1	0.1	0.4%	0.5%	
PCB-167	6.32	25.3	191	--		191	191	0.00001	0.0	0.0	0.0%	0.0%	
PCB-169	0.856	3.42	2.3	--		2.3	1.15	0.01	0.0	0.0	0.2%	0.1%	
PCB-189	10.7	42.8	51.6	--		51.6	51.6	0.0001	0.0	0.0	0.0%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
10.0	8.3	3.2	3.0	13.2	11.3

Sample ID	883	Duplicate	SP-4										
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	0.956	3.824	1.17	NJ		0.585		0.1	0.1		1.1%	0.0%	
2,3,7,8-TCDD	0.141	0.564		E		0.0705		1	0.1		1.4%	0.0%	
1,2,3,7,8-PeCDF	0.109	0.436	7.19	--		7.19	7.19	0.05	0.4	0.4	6.9%	8.4%	
2,3,4,7,8-PeCDF	0.0929	0.3716	1.28	--		1.28	1.28	0.5	0.6	0.6	12.3%	14.9%	
1,2,3,7,8-PeCDD	0.415	1.66		E	<5x*B	0.2075		1	0.2		4.0%	0.0%	
1,2,3,4,7,8-HxCDF	0.984	3.936	13.8	--		13.8	13.8	0.1	1.4	1.4	26.5%	32.2%	
1,2,3,6,7,8-HxCDF	0.865	3.46	7.21	--		7.21	7.21	0.1	0.7	0.7	13.8%	16.8%	
2,3,4,6,7,8-HxCDF	1.09	4.36	3.27	--		3.27	1.635	0.1	0.3	0.2	6.3%	3.8%	
1,2,3,7,8,9-HxCDF	1.32	5.28	3.17	B	<5x*B	3.17	0.7925	0.1	0.3	0.1	6.1%	1.9%	
1,2,3,4,7,8-HxCDD	0.433	1.732		E		0.2165		0.1	0.0		0.4%	0.0%	
1,2,3,6,7,8-HxCDD	0.0698	0.2792	0.792	--		0.792	0.792	0.1	0.1	0.1	1.5%	1.9%	
1,2,3,7,8,9-HxCDD	0.0696	0.2784	0.831	J		0.831	0.4155	0.1	0.1	0.0	1.6%	1.0%	
1,2,3,4,6,7,8-HpCDF	34.4	137.6		D	<5x*B	8.6		0.01	0.1		1.7%	0.0%	
1,2,3,4,7,8,9-HpCDF	0.155	0.62	16.7	--		16.7	16.7	0.01	0.2	0.2	3.2%	3.9%	
1,2,3,4,6,7,8-HpCDD	0.0864	0.3456	10.6	--		10.6	10.6	0.01	0.1	0.1	2.0%	2.5%	
OCDF	0.0525	0.21	282	--		282	282	0.0001	0.0	0.0	0.5%	0.7%	
OCDD	0.0764	0.3056	86.9	--		86.9	86.9	0.0001	0.0	0.0	0.2%	0.2%	
PCB-77	1.28	5.12	30.1	BJ	<5x*B	30.1	15.05	0.0001	0.0	0.0	0.1%	0.0%	
PCB-81	1.42	5.68	1.68	J		1.68	0.42	0.0001	0.0	0.0	0.0%	0.0%	
PCB-105	5.69	22.76	116	B	<5x*B	116	58	0.0001	0.0	0.0	0.2%	0.1%	
PCB-114	5.55	22.2	5.28	B	<5x*B	2.775		0.0005	0.0		0.0%	0.0%	
PCB-118	4.56	18.24	217	BJ	<5x*B	217	108.5	0.0001	0.0	0.0	0.4%	0.3%	
PCB-123	4.83	19.32		--	<5x*B	2.415		0.0001	0.0		0.0%	0.0%	
PCB-126	0.38	1.52	4.8	--		4.8	4.8	0.1	0.5	0.5	9.2%	11.2%	
PCB-156	2.27	9.08	34.3	B	<5x*B	34.3	17.15	0.0005	0.0	0.0	0.3%	0.2%	
PCB-157	2.41	9.64	12.1	B	<5x*B	12.1	6.05	0.0005	0.0	0.0	0.1%	0.1%	
PCB-167	2.26	9.04	19.2	B	<5x*B	19.2	9.6	0.00001	0.0	0.0	0.0%	0.0%	
PCB-169	0.284	1.136	0.756	--		0.756	0.378	0.01	0.0	0.0	0.2%	0.1%	
PCB-189	3.19	12.76	5.8	--		5.8	2.9	0.0001	0.0	0.0	0.0%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
4.7	3.8	0.5	0.5	5.2	4.3

Sample ID	364	Field Blank		f blank	Quality Control Results							
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	1.2	4.8	--		0.6		0.1	0.1			3.0%	0.0%
2,3,7,8-TCDD	0.595	2.38	--		0.2975		1	0.3			15.1%	0.0%
1,2,3,7,8-PeCDF	0.491	1.964	--		0.2455		0.05	0.0			0.6%	0.0%
2,3,4,7,8-PeCDF	0.39	1.56	--		0.195		0.5	0.1			5.0%	0.0%
1,2,3,7,8-PeCDD	0.717	2.868	E	<5x*B	0.3585		1	0.4			18.2%	0.0%
1,2,3,4,7,8-HxCDF	0.691	2.764	0.739	B	<5x*B	0.739	0.18475	0.1	0.1	0.0	3.8%	2.6%
1,2,3,6,7,8-HxCDF	0.595	2.38	0.968	B	<5x*B	0.968	0.242	0.1	0.1	0.0	4.9%	3.5%
2,3,4,6,7,8-HxCDF	0.782	3.128	0.671	B	<5x*B	0.391		0.1	0.0		2.0%	0.0%
1,2,3,7,8,9-HxCDF	1.32	5.28	0.643	B	<5x*B	0.66		0.1	0.1		3.4%	0.0%
1,2,3,4,7,8-HxCDD	0.781	3.124		E		0.3905		0.1	0.0		2.0%	0.0%
1,2,3,6,7,8-HxCDD	0.295	1.18	1.41	--		1.41	1.41	0.1	0.1	0.1	7.2%	20.1%
1,2,3,7,8,9-HxCDD	0.296	1.184	1.03	J		1.03	0.2575	0.1	0.1	0.0	5.2%	3.7%
1,2,3,4,6,7,8-HpCDF	5.58	22.32		D	<5x*B	1.395		0.01	0.0		0.7%	0.0%
1,2,3,4,7,8,9-HpCDF	0.933	3.732		E		0.4665		0.01	0.0		0.2%	0.0%
1,2,3,4,6,7,8-HpCDD	0.357	1.428	38.8	--		38.8	38.8	0.01	0.4	0.4	19.7%	55.4%
OCDF	0.391	1.564	13.7	B	<5x*B	13.7	6.85	0.0001	0.0	0.0	0.1%	0.1%
OCDD	0.271	1.084	333	--		333	333	0.0001	0.0	0.0	1.7%	4.8%
PCB-77	3.59	14.36	6.05	BJ	<5x*B	6.05	1.5125	0.0001	0.0	0.0	0.0%	0.0%
PCB-81	4.19	16.76		J		2.095		0.0001	0.0		0.0%	0.0%
PCB-105	2.06	8.24	59.8	B	<5x*B	59.8	29.9	0.0001	0.0	0.0	0.3%	0.4%
PCB-114	2.01	8.04	3.63	B	<5x*B	3.63	0.9075	0.0005	0.0	0.0	0.1%	0.1%
PCB-118	1.82	7.28	134	BJ	<5x*B	134	67	0.0001	0.0	0.0	0.7%	1.0%
PCB-123	1.92	7.68	--	<5x*B	0.96		0.0001	0.0			0.0%	0.0%
PCB-126	0.264	1.056	1.03	--		1.03	0.515	0.1	0.1	0.1	5.2%	7.4%
PCB-156	2.31	9.24	24.2	B	<5x*B	24.2	12.1	0.0005	0.0	0.0	0.6%	0.9%
PCB-157	2.45	9.8	6.07	B	<5x*B	6.07	1.5175	0.0005	0.0	0.0	0.2%	0.1%
PCB-167	2.3	9.2	10.8	B	<5x*B	10.8	5.4	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.384	1.536	--		0.192		0.01	0.0			0.1%	0.0%
PCB-189	3.26	13.04	2.18	--		1.63		0.0001	0.0		0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
1.8	0.6	0.1	0.1	2.0	0.7

Sample ID	GAANLMB	<i>Lab Blank</i>		APPENDIX A2. Quality Control Results								FINAL
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.526	2.104		--	0.263		0.1	0.0			2.9%	0.0%
2,3,7,8-TCDD	0.139	0.556		--	0.0695		1	0.1			7.6%	0.0%
1,2,3,7,8-PeCDF	0.406	1.624		E	0.203		0.05	0.0			1.1%	0.0%
2,3,4,7,8-PeCDF	0.286	1.144		--	0.143		0.5	0.1			7.8%	0.0%
1,2,3,7,8-PeCDD	0.162	0.648	0.424	--	0.424	0.212	1	0.4	0.2	46.2%	62.6%	
1,2,3,4,7,8-HxCDF	0.308	1.232	0.372	--	0.372	0.186	0.1	0.0	0.0	4.1%	5.5%	
1,2,3,6,7,8-HxCDF	0.276	1.104	0.344	--	0.344	0.172	0.1	0.0	0.0	3.8%	5.1%	
2,3,4,6,7,8-HxCDF	0.324	1.296	0.326	--	0.326	0.163	0.1	0.0	0.0	3.6%	4.8%	
1,2,3,7,8,9-HxCDF	0.422	1.688	0.64	--	0.64	0.32	0.1	0.1	0.0	7.0%	9.4%	
1,2,3,4,7,8-HxCDD	0.258	1.032		E	0.129		0.1	0.0			1.4%	0.0%
1,2,3,6,7,8-HxCDD	0.185	0.74		--	0.0925		0.1	0.0			1.0%	0.0%
1,2,3,7,8,9-HxCDD	0.187	0.748		J	0.0935		0.1	0.0			1.0%	0.0%
1,2,3,4,6,7,8-HpCDF	0.167	0.668	0.802	--	0.802	0.802	0.01	0.0	0.0	0.9%	2.4%	
1,2,3,4,7,8,9-HpCDF	0.506	2.024		E	0.253		0.01	0.0			0.3%	0.0%
1,2,3,4,6,7,8-HpCDD	0.124	0.496	1.01	--	1.01	1.01	0.01	0.0	0.0	1.1%	3.0%	
OCDF	0.358	1.432	8.34	--	8.34	8.34	0.0001	0.0	0.0	0.1%	0.3%	
OCDD	0.0292	0.1168	6.78	--	6.78	6.78	0.0001	0.0	0.0	0.1%	0.2%	
PCB-77	2.12	8.48	6.28	J	6.28	1.57	0.0001	0.0	0.0	0.1%	0.1%	
PCB-81	2.42	9.68		J	1.21		0.0001	0.0			0.0%	0.0%
PCB-105	5.44	21.76	40.5	--	40.5	40.5	0.0001	0.0	0.0	0.4%	1.2%	
PCB-114	0.66	2.64	3.36	--	3.36	3.36	0.0005	0.0	0.0	0.2%	0.5%	
PCB-118	4.12	16.48	108	--	108	108	0.0001	0.0	0.0	1.2%	3.2%	
PCB-123	4.35	17.4	5.21	--	5.21	2.605	0.0001	0.0	0.0	0.1%	0.1%	
PCB-126	1.37	5.48		--	0.685		0.1	0.1			7.5%	0.0%
PCB-156	2.07	8.28	10.7	--	10.7	10.7	0.0005	0.0	0.0	0.6%	1.6%	
PCB-157	2.2	8.8	3.24	--	3.24	1.62	0.0005	0.0	0.0	0.2%	0.2%	
PCB-167	2.06	8.24	11.3	--	11.3	11.3	0.00001	0.0	0.0	0.0%	0.0%	
PCB-169	0.29	1.16		--	0.145		0.01	0.0			0.2%	0.0%
PCB-189	1.57	6.28		--	0.785		0.0001	0.0			0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
0.8	0.3	0.1	0.0	0.9	0.3

Sample ID	GAAOMB	<i>Lab Blank</i>		Quality Control Results								FINAL
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.0413	0.1652		--		0.02065		0.1	0.0		0.7%	0.0%
2,3,7,8-TCDD	0.00611	0.0244		--		0.003055		1	0.0		1.0%	0.0%
1,2,3,7,8-PeCDF	0.0463	0.1852		--		0.02315		0.05	0.0		0.4%	0.0%
2,3,4,7,8-PeCDF	0.0424	0.1696		--		0.0212		0.5	0.0		3.5%	0.0%
1,2,3,7,8-PeCDD	0.111	0.444		--		0.0555		1	0.1		18.2%	0.0%
1,2,3,4,7,8-HxCDF	0.425	1.7		E		0.2125		0.1	0.0		7.0%	0.0%
1,2,3,6,7,8-HxCDF	0.352	1.408		E		0.176		0.1	0.0		5.8%	0.0%
2,3,4,6,7,8-HxCDF	0.0135	0.054	0.34	--	<5x*B	0.34	0.34	0.1	0.0	0.0	11.1%	28.6%
1,2,3,7,8,9-HxCDF	0.0148	0.0592	0.694	--	<5x*B	0.694	0.694	0.1	0.1	0.1	22.7%	58.3%
1,2,3,4,7,8-HxCDD	0.00975	0.039		--		0.004875		0.1	0.0		0.2%	0.0%
1,2,3,6,7,8-HxCDD	0.00849	0.034		--		0.004245		0.1	0.0		0.1%	0.0%
1,2,3,7,8,9-HxCDD	0.00825	0.033		--		0.004125		0.1	0.0		0.1%	0.0%
1,2,3,4,6,7,8-HpCDF	0.657	2.628		D		0.16425		0.01	0.0		0.5%	0.0%
1,2,3,4,7,8,9-HpCDF	0.0472	0.1888	0.513	--	<5x*B	0.513	0.513	0.01	0.0	0.0	1.7%	4.3%
1,2,3,4,6,7,8-HpCDD	0.684	2.736		E		0.342		0.01	0.0		1.1%	0.0%
OCDF	0.00617	0.0247	6.46	--	<5x*B	6.46	6.46	0.0001	0.0	0.0	0.2%	0.5%
OCDD	0.0114	0.0456	4.98	--	<5x*B	4.98	4.98	0.0001	0.0	0.0	0.2%	0.4%
PCB-77	0.214	0.856	2.42	--	<5x*B	2.42	2.42	0.0001	0.0	0.0	0.1%	0.2%
PCB-81	0.219	0.876		J		0.1095		0.0001	0.0		0.0%	0.0%
PCB-105	0.355	1.42	22.7	J	<5x*B	22.7	11.35	0.0001	0.0	0.0	0.7%	1.0%
PCB-114	0.348	1.392	1.49	--	<5x*B	1.49	1.49	0.0005	0.0	0.0	0.2%	0.6%
PCB-118	0.315	1.26	57.9	J	<5x*B	57.9	28.95	0.0001	0.0	0.0	1.9%	2.4%
PCB-123	0.344	1.376	0.997	--	<5x*B	0.997	0.4985	0.0001	0.0	0.0	0.0%	0.0%
PCB-126	1.27	5.08		--		0.635		0.1	0.1		20.8%	0.0%
PCB-156	0.0838	0.3352	6.83	--	<5x*B	6.83	6.83	0.0005	0.0	0.0	1.1%	2.9%
PCB-157	0.0872	0.3488	1.54	--	<5x*B	1.54	1.54	0.0005	0.0	0.0	0.3%	0.7%
PCB-167	0.0771	0.3084	2.29	--	<5x*B	2.29	2.29	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.329	1.316		--		0.1645		0.01	0.0		0.5%	0.0%
PCB-189	0.0446	0.1784	0.664	--	<5x*B	0.664	0.664	0.0001	0.0	0.0	0.0%	0.1%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
0.2	0.1	0.1	0.0	0.3	0.1

Sample ID	GAAWMB	<i>Lab Blank</i>		Quality Control Results								FINAL
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.00879	0.0352	--		0.004395		0.1	0.0			0.4%	0.0%
2,3,7,8-TCDD	0.00244	0.0098	--		0.00122		1	0.0			1.1%	0.0%
1,2,3,7,8-PeCDF	0.00133	0.0053	--		0.000665		0.05	0.0			0.0%	0.0%
2,3,4,7,8-PeCDF	0.00102	0.0041	--		0.00051		0.5	0.0			0.2%	0.0%
1,2,3,7,8-PeCDD	0.00137	0.0055	--		0.000685		1	0.0			0.6%	0.0%
1,2,3,4,7,8-HxCDF	0.00094	0.0038	--		0.0004705		0.1	0.0			0.0%	0.0%
1,2,3,6,7,8-HxCDF	0.181	0.724	E		0.0905		0.1	0.0			8.2%	0.0%
2,3,4,6,7,8-HxCDF	0.00098	0.0039	--		0.00049		0.1	0.0			0.0%	0.0%
1,2,3,7,8,9-HxCDF	0.00117	0.0047	0.568	--	<5x*B	0.568	0.568	0.1	0.1	0.1	51.3%	60.1%
1,2,3,4,7,8-HxCDD	0.00159	0.0064	0.228	--	<5x*B	0.228	0.228	0.1	0.0	0.0	20.6%	24.1%
1,2,3,6,7,8-HxCDD	0.00165	0.0066	--		0.000825		0.1	0.0			0.1%	0.0%
1,2,3,7,8,9-HxCDD	0.00169	0.0068	--		0.000845		0.1	0.0			0.1%	0.0%
1,2,3,4,6,7,8-HpCDF	0.00107	0.0043	0.194	--	<5x*B	0.194	0.194	0.01	0.0	0.0	1.8%	2.1%
1,2,3,4,7,8,9-HpCDF	0.00166	0.0066	--		0.00083		0.01	0.0			0.0%	0.0%
1,2,3,4,6,7,8-HpCDD	0.00145	0.0058	0.468	--	<5x*B	0.468	0.468	0.01	0.0	0.0	4.2%	5.0%
OCDF	0.00051	0.0020	--		0.0002555		0.0001	0.0			0.0%	0.0%
OCDD	0.00148	0.0059	2.23	--	<5x*B	2.23	2.23	0.0001	0.0	0.0	0.2%	0.2%
PCB-77	0.0602	0.2408	3.61	--	<5x*B	3.61	3.61	0.0001	0.0	0.0	0.3%	0.4%
PCB-81	0.0603	0.2412	0.689	--	<5x*B	0.689	0.689	0.0001	0.0	0.0	0.1%	0.1%
PCB-105	0.581	2.324	15.1	--	<5x*B	15.1	15.1	0.0001	0.0	0.0	1.4%	1.6%
PCB-114	0.578	2.312	1.08	--	<5x*B	1.08	0.54	0.0005	0.0	0.0	0.5%	0.3%
PCB-118	0.5	2	36.9	--	<5x*B	36.9	36.9	0.0001	0.0	0.0	3.3%	3.9%
PCB-123	2.15	8.6	E		1.075		0.0001	0.0			0.1%	0.0%
PCB-126	0.0723	0.2892	--		0.03615		0.1	0.0			3.3%	0.0%
PCB-156	0.194	0.776	3.38	--	<5x*B	3.38	3.38	0.0005	0.0	0.0	1.5%	1.8%
PCB-157	0.204	0.816	0.884	--	<5x*B	0.884	0.884	0.0005	0.0	0.0	0.4%	0.5%
PCB-167	0.188	0.752	1.13	--	<5x*B	1.13	1.13	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.0358	0.1432	--		0.0179		0.01	0.0			0.2%	0.0%
PCB-189	0.345	1.38	E		0.1725		0.0001	0.0			0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
0.1	0.1	0.0	0.0	0.1	0.1

Sample ID	GBAEMB	<i>Lab Blank</i>		Quality Control Results								Final	
Analyte	EDL	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
		QL	Conc	Flag	Full		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.0369	0.1476	--		0.01845		0.1		0.0			0.3%	0.0%
2,3,7,8-TCDD	0.00908	0.0363	--		0.00454		1		0.0			0.8%	0.0%
1,2,3,7,8-PeCDF	0.404	1.616	E		0.202		0.05		0.0			1.7%	0.0%
2,3,4,7,8-PeCDF	0.0192	0.0768	--		0.0096		0.5		0.0			0.8%	0.0%
1,2,3,7,8-PeCDD	0.654	2.616	E		0.327		1		0.3			55.4%	0.0%
1,2,3,4,7,8-HxCDF	0.244	0.976	E		0.122		0.1		0.0			2.1%	0.0%
1,2,3,6,7,8-HxCDF	0.00915	0.0366	--		0.004575		0.1		0.0			0.1%	0.0%
2,3,4,6,7,8-HxCDF	0.011	0.044	0.328	--	<5x*B	0.328	0.328	0.1	0.0	0.0		5.6%	22.8%
1,2,3,7,8,9-HxCDF	0.016	0.064	0.775	--	<5x*B	0.775	0.775	0.1	0.1	0.1		13.1%	53.9%
1,2,3,4,7,8-HxCDD	0.503	2.012	E		0.2515		0.1		0.0			4.3%	0.0%
1,2,3,6,7,8-HxCDD	0.325	1.3	E		0.1625		0.1		0.0			2.8%	0.0%
1,2,3,7,8,9-HxCDD	0.166	0.664	EJ		0.083		0.1		0.0			1.4%	0.0%
1,2,3,4,6,7,8-HpCDF	0.588	2.352	EI		0.294		0.01		0.0			0.5%	0.0%
1,2,3,4,7,8,9-HpCDF	0.292	1.168	E		0.146		0.01		0.0			0.3%	0.0%
1,2,3,4,6,7,8-HpCDD	0.76	3.04	E		0.38		0.01		0.0			0.6%	0.0%
OCDF	1.39	5.56	E		0.695		0.0001		0.0			0.0%	0.0%
OCDD	0.0502	0.2008	3.82	--	<5x*B	3.82	3.82	0.0001	0.0	0.0		0.1%	0.3%
PCB-77	0.0985	0.394	3.47	--	<5x*B	3.47	3.47	0.0001	0.0	0.0		0.1%	0.2%
PCB-81	0.0948	0.3792	0.914	--	<5x*B	0.914	0.914	0.0001	0.0	0.0		0.0%	0.1%
PCB-105	0.58	2.32	18.5	--	<5x*B	18.5	18.5	0.0001	0.0	0.0		0.3%	1.3%
PCB-114	0.606	2.424	--		0.303		0.0005		0.0			0.0%	0.0%
PCB-118	0.665	2.66	40.6	--	<5x*B	40.6	40.6	0.0001	0.0	0.0		0.7%	2.8%
PCB-123	0.756	3.024	--		0.378		0.0001		0.0			0.0%	0.0%
PCB-126	0.148	0.592	0.488	--	<5x*B	0.488	0.244	0.1	0.0	0.0		8.3%	17.0%
PCB-156	0.448	1.792	4.54	--	<5x*B	4.54	4.54	0.0005	0.0	0.0		0.4%	1.6%
PCB-157	1.45	5.8	E		0.725		0.0005		0.0			0.1%	0.0%
PCB-167	1.84	7.36	E		0.92		0.00001		0.0			0.0%	0.0%
PCB-169	0.466	1.864	E		0.233		0.01		0.0			0.4%	0.0%
PCB-189	0.153	0.612	--		0.0765		0.0001		0.0			0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
0.5	0.1	0.1	0.0	0.6	0.1

Sample ID	GAANLCS	<i>Lab Spike</i>		APPENDIX A2. Quality Control Results								FINAL
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.398	1.592	19	--		19	19	0.1	1.9	1.9	0.7%	0.7%
2,3,7,8-TCDD	0.316	1.264	18.2	--		18.2	18.2	1	18.2	18.2	6.6%	6.7%
1,2,3,7,8-PeCDF	0.382	1.528	111	--		111	111	0.05	5.6	5.6	2.0%	2.0%
2,3,4,7,8-PeCDF	0.322	1.288	93.4	--		93.4	93.4	0.5	46.7	46.7	16.9%	17.1%
1,2,3,7,8-PeCDD	0.252	1.008	114	--		114	114	1	114.0	114.0	41.2%	41.8%
1,2,3,4,7,8-HxCDF	0.166	0.664	95	--		95	95	0.1	9.5	9.5	3.4%	3.5%
1,2,3,6,7,8-HxCDF	0.146	0.584	89	--		89	89	0.1	8.9	8.9	3.2%	3.3%
2,3,4,6,7,8-HxCDF	0.206	0.824	101	--		101	101	0.1	10.1	10.1	3.7%	3.7%
1,2,3,7,8,9-HxCDF	0.322	1.288	83.2	--		83.2	83.2	0.1	8.3	8.3	3.0%	3.1%
1,2,3,4,7,8-HxCDD	0.131	0.524	101	--		101	101	0.1	10.1	10.1	3.7%	3.7%
1,2,3,6,7,8-HxCDD	0.109	0.436	87.2	--		87.2	87.2	0.1	8.7	8.7	3.2%	3.2%
1,2,3,7,8,9-HxCDD	0.111	0.444	70.4	J		70.4	35.2	0.1	7.0	3.5	2.6%	1.3%
1,2,3,4,6,7,8-HpCDF	0.134	0.536	81.8	--		81.8	81.8	0.01	0.8	0.8	0.3%	0.3%
1,2,3,4,7,8,9-HpCDF	0.332	1.328	95.6	--		95.6	95.6	0.01	1.0	1.0	0.4%	0.4%
1,2,3,4,6,7,8-HpCDD	0.084	0.336	106	--		106	106	0.01	1.1	1.1	0.4%	0.4%
OCDF	0.296	1.184	212	--		212	212	0.0001	0.0	0.0	0.0%	0.0%
OCDD	0.158	0.632	192	--		192	192	0.0001	0.0	0.0	0.0%	0.0%
PCB-77	2.32	9.28	256	J		256	128	0.0001	0.0	0.0	0.0%	0.0%
PCB-81	2.62	10.48	252	J		252	126	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	3.33	13.32	239	--		239	239	0.0001	0.0	0.0	0.0%	0.0%
PCB-114	3.25	13	196	--		196	196	0.0005	0.1	0.1	0.0%	0.0%
PCB-118	2.96	11.84	304	BJ	<5x*B	304	152	0.0001	0.0	0.0	0.0%	0.0%
PCB-123	3.13	12.52	220	--		220	220	0.0001	0.0	0.0	0.0%	0.0%
PCB-126	1.68	6.72	220	--		220	220	0.1	22.0	22.0	8.0%	8.1%
PCB-156	1.07	4.28	210	--		210	210	0.0005	0.1	0.1	0.0%	0.0%
PCB-157	1.14	4.56	205	--		205	205	0.0005	0.1	0.1	0.0%	0.0%
PCB-167	1.07	4.28	220	--		220	220	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	1.14	4.56	224	--		224	224	0.01	2.2	2.2	0.8%	0.8%
PCB-189	0.688	2.752	204	--		204	204	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
251.9	248.4	24.7	24.7	276.6	273.0

Sample ID	GAAOLCS	<i>Lab Spike</i>		Quality Control Results								
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.465	1.86	19	NJ		9.5		0.1	1.0		0.4%	0.0%
2,3,7,8-TCDD	0.346	1.384	17.1	--		17.1	17.1	1	17.1	17.1	6.3%	6.3%
1,2,3,7,8-PeCDF	0.219	0.876	106	--		106	106	0.05	5.3	5.3	1.9%	2.0%
2,3,4,7,8-PeCDF	0.192	0.768	93.2	--		93.2	93.2	0.5	46.6	46.6	17.1%	17.1%
1,2,3,7,8-PeCDD	0.256	1.024	112	--		112	112	1	112.0	112.0	41.0%	41.1%
1,2,3,4,7,8-HxCDF	0.298	1.192	96.8	--		96.8	96.8	0.1	9.7	9.7	3.5%	3.6%
1,2,3,6,7,8-HxCDF	0.256	1.024	89.7	--		89.7	89.7	0.1	9.0	9.0	3.3%	3.3%
2,3,4,6,7,8-HxCDF	0.335	1.34	97.6	--		97.6	97.6	0.1	9.8	9.8	3.6%	3.6%
1,2,3,7,8,9-HxCDF	0.495	1.98	85.5	--		85.5	85.5	0.1	8.6	8.6	3.1%	3.1%
1,2,3,4,7,8-HxCDD	0.0924	0.3696	99.8	--		99.8	99.8	0.1	10.0	10.0	3.7%	3.7%
1,2,3,6,7,8-HxCDD	0.0838	0.3352	85.7	--		85.7	85.7	0.1	8.6	8.6	3.1%	3.2%
1,2,3,7,8,9-HxCDD	0.0817	0.3268	82.2	--		82.2	82.2	0.1	8.2	8.2	3.0%	3.0%
1,2,3,4,6,7,8-HpCDF	0.163	0.652	82.2	--		82.2	82.2	0.01	0.8	0.8	0.3%	0.3%
1,2,3,4,7,8,9-HpCDF	0.352	1.408	93.5	--		93.5	93.5	0.01	0.9	0.9	0.3%	0.3%
1,2,3,4,6,7,8-HpCDD	0.102	0.408	107	--		107	107	0.01	1.1	1.1	0.4%	0.4%
OCDF	0.175	0.7	197	--		197	197	0.0001	0.0	0.0	0.0%	0.0%
OCDD	0.0805	0.322	198	--		198	198	0.0001	0.0	0.0	0.0%	0.0%
PCB-77	0.293	1.172	249	--		249	249	0.0001	0.0	0.0	0.0%	0.0%
PCB-81	0.351	1.404	251	J		251	125.5	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	0.696	2.784	265	J		265	132.5	0.0001	0.0	0.0	0.0%	0.0%
PCB-114	0.682	2.728	217	--		217	217	0.0005	0.1	0.1	0.0%	0.0%
PCB-118	0.589	2.356	325	J		325	162.5	0.0001	0.0	0.0	0.0%	0.0%
PCB-123	0.645	2.58	222	--		222	222	0.0001	0.0	0.0	0.0%	0.0%
PCB-126	0.253	1.012	220	--		220	220	0.1	22.0	22.0	8.1%	8.1%
PCB-156	0.184	0.736	232	--		232	232	0.0005	0.1	0.1	0.0%	0.0%
PCB-157	0.192	0.768	216	--		216	216	0.0005	0.1	0.1	0.0%	0.0%
PCB-167	0.17	0.68	211	--		211	211	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.235	0.94	226	--		226	226	0.01	2.3	2.3	0.8%	0.8%
PCB-189	0.0359	0.1436	219	--		219	219	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
248.5	247.6	24.7	24.7	273.3	272.3

Sample ID	GAAWLC	<i>Lab Spike</i>		Quality Control Results										
Analyte	Analytical Limits		Results		<5x in MB found		Adjusted Concentrations*		WHO TEFs		Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag	Full	Quant	Human	Full	Quant	Full	Quant	Full	Quant	
2,3,7,8-TCDF	0.00153	0.0061	18.6	--	18.6	18.6	0.1	1.9	1.9	0.7%	0.7%			
2,3,7,8-TCDD	0.00248	0.0099	18.9	--	18.9	18.9	1	18.9	18.9	6.9%	6.9%			
1,2,3,7,8-PeCDF	0.00191	0.0076	111	--	111	111	0.05	5.6	5.6	2.0%	2.0%			
2,3,4,7,8-PeCDF	0.00146	0.0058	98.7	--	98.7	98.7	0.5	49.4	49.4	18.1%	18.1%			
1,2,3,7,8-PeCDD	0.00252	0.0101	107	--	107	107	1	107.0	107.0	39.2%	39.2%			
1,2,3,4,7,8-HxCDF	0.0164	0.0656	90.6	--	90.6	90.6	0.1	9.1	9.1	3.3%	3.3%			
1,2,3,6,7,8-HxCDF	0.013	0.052	82.1	--	82.1	82.1	0.1	8.2	8.2	3.0%	3.0%			
2,3,4,6,7,8-HxCDF	0.0168	0.0672	90.7	--	90.7	90.7	0.1	9.1	9.1	3.3%	3.3%			
1,2,3,7,8,9-HxCDF	0.0213	0.0852	86.2	--	86.2	86.2	0.1	8.6	8.6	3.2%	3.2%			
1,2,3,4,7,8-HxCDD	0.00211	0.0084	106	--	106	106	0.1	10.6	10.6	3.9%	3.9%			
1,2,3,6,7,8-HxCDD	0.00227	0.0091	87.2	--	87.2	87.2	0.1	8.7	8.7	3.2%	3.2%			
1,2,3,7,8,9-HxCDD	0.00228	0.0091	87.9	--	87.9	87.9	0.1	8.8	8.8	3.2%	3.2%			
1,2,3,4,6,7,8-HpCDF	0.0201	0.0804	80	--	80	80	0.01	0.8	0.8	0.3%	0.3%			
1,2,3,4,7,8,9-HpCDF	0.0259	0.1036	99.9	--	99.9	99.9	0.01	1.0	1.0	0.4%	0.4%			
1,2,3,4,6,7,8-HpCDD	0.00162	0.0065	98.9	--	98.9	98.9	0.01	1.0	1.0	0.4%	0.4%			
OCDF	0.00149	0.006	203	--	203	203	0.0001	0.0	0.0	0.0%	0.0%			
OCDD	0.00296	0.0118	196	--	196	196	0.0001	0.0	0.0	0.0%	0.0%			
PCB-77	0.102	0.408	219	--	219	219	0.0001	0.0	0.0	0.0%	0.0%			
PCB-81	0.113	0.452	229	--	229	229	0.0001	0.0	0.0	0.0%	0.0%			
PCB-105	0.379	1.516	212	--	212	212	0.0001	0.0	0.0	0.0%	0.0%			
PCB-114	0.376	1.504	191	--	191	191	0.0005	0.1	0.1	0.0%	0.0%			
PCB-118	0.304	1.216	234	--	234	234	0.0001	0.0	0.0	0.0%	0.0%			
PCB-123	0.342	1.368	209	--	209	209	0.0001	0.0	0.0	0.0%	0.0%			
PCB-126	0.157	0.628	219	--	219	219	0.1	21.9	21.9	8.0%	8.0%			
PCB-156	0.237	0.948	212	--	212	212	0.0005	0.1	0.1	0.0%	0.0%			
PCB-157	0.249	0.996	223	--	223	223	0.0005	0.1	0.1	0.0%	0.0%			
PCB-167	0.23	0.92	220	--	220	220	0.00001	0.0	0.0	0.0%	0.0%			
PCB-169	0.095	0.38	202	--	202	202	0.01	2.0	2.0	0.7%	0.7%			
PCB-189	0.103	0.412	204	--	204	204	0.0001	0.0	0.0	0.0%	0.0%			

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
248.6	248.6	24.4	24.4	272.9	272.9

Sample ID	GBAELCS	<i>Lab Spike</i>		Quality Control Results								Final		
Analyte	Analytical Limits		Results		<5x in MB found		Adjusted Concentrations*		WHO TEFs		Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag	Full	Quant	Human	Full	Quant	Full	Quant	Full	Quant	
2,3,7,8-TCDF	0.037	0.148	20.6	--	20.6	20.6	0.1	2.1	2.1	0.7%	0.7%			
2,3,7,8-TCDD	0.0134	0.0536	20.1	--	20.1	20.1	1	20.1	20.1	7.1%	7.2%			
1,2,3,7,8-PeCDF	0.0924	0.3696	124	--	124	124	0.05	6.2	6.2	2.2%	2.2%			
2,3,4,7,8-PeCDF	0.0496	0.1984	103	--	103	103	0.5	51.5	51.5	18.3%	18.5%			
1,2,3,7,8-PeCDD	0.0571	0.2284	110	--	110	110	1	110.0	110.0	39.1%	39.4%			
1,2,3,4,7,8-HxCDF	0.0669	0.2676	95.5	--	95.5	95.5	0.1	9.6	9.6	3.4%	3.4%			
1,2,3,6,7,8-HxCDF	0.077	0.308	92.3	--	92.3	92.3	0.1	9.2	9.2	3.3%	3.3%			
2,3,4,6,7,8-HxCDF	0.103	0.412	104	--	104	104	0.1	10.4	10.4	3.7%	3.7%			
1,2,3,7,8,9-HxCDF	0.179	0.716	90.6	--	90.6	90.6	0.1	9.1	9.1	3.2%	3.3%			
1,2,3,4,7,8-HxCDD	0.0278	0.1112	100	--	100	100	0.1	10.0	10.0	3.6%	3.6%			
1,2,3,6,7,8-HxCDD	0.0237	0.0948	89.3	--	89.3	89.3	0.1	8.9	8.9	3.2%	3.2%			
1,2,3,7,8,9-HxCDD	0.0264	0.1056	52	J	52	26	0.1	5.2	2.6	1.9%	0.9%			
1,2,3,4,6,7,8-HpCDF	0.0703	0.2812	82.1	--	82.1	82.1	0.01	0.8	0.8	0.3%	0.3%			
1,2,3,4,7,8,9-HpCDF	0.144	0.576	94.3	--	94.3	94.3	0.01	0.9	0.9	0.3%	0.3%			
1,2,3,4,6,7,8-HpCDD	0.0988	0.3952	98.9	--	98.9	98.9	0.01	1.0	1.0	0.4%	0.4%			
OCDF	0.157	0.628	177	--	177	177	0.0001	0.0	0.0	0.0%	0.0%			
OCDD	0.126	0.504	208	--	208	208	0.0001	0.0	0.0	0.0%	0.0%			
PCB-77	0.0923	0.3692	234	--	234	234	0.0001	0.0	0.0	0.0%	0.0%			
PCB-81	0.0884	0.3536	226	--	226	226	0.0001	0.0	0.0	0.0%	0.0%			
PCB-105	0.831	3.324	238	--	238	238	0.0001	0.0	0.0	0.0%	0.0%			
PCB-114	0.869	3.476	229	--	229	229	0.0005	0.1	0.1	0.0%	0.0%			
PCB-118	0.954	3.816	246	--	246	246	0.0001	0.0	0.0	0.0%	0.0%			
PCB-123	1.08	4.32	225	--	225	225	0.0001	0.0	0.0	0.0%	0.0%			
PCB-126	0.172	0.688	238	--	238	238	0.1	23.8	23.8	8.5%	8.5%			
PCB-156	1.69	6.76	223	--	223	223	0.0005	0.1	0.1	0.0%	0.0%			
PCB-157	1.75	7	227	--	227	227	0.0005	0.1	0.1	0.0%	0.0%			
PCB-167	1.72	6.88	229	--	229	229	0.00001	0.0	0.0	0.0%	0.0%			
PCB-169	0.121	0.484	236	--	236	236	0.01	2.4	2.4	0.8%	0.9%			
PCB-189	0.216	0.864	218	--	218	218	0.0001	0.0	0.0	0.0%	0.0%			

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
255.0	252.4	26.6	26.6	281.7	279.1

Sample ID	113	PE Clean	Ref-F-22									
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.737	2.948		--		0.3685		0.1	0.0		3.2%	0.0%
2,3,7,8-TCDD	0.0986	0.3944		--		0.0493		1	0.0		4.3%	0.0%
1,2,3,7,8-PeCDF	0.213	0.852		--		0.1065		0.05	0.0		0.5%	0.0%
2,3,4,7,8-PeCDF	0.156	0.624		--		0.078		0.5	0.0		3.4%	0.0%
1,2,3,7,8-PeCDD	0.0934	0.3736		--		0.0467		1	0.0		4.1%	0.0%
1,2,3,4,7,8-HxCDF	1.14	4.56		D		0.285		0.1	0.0		2.5%	0.0%
1,2,3,6,7,8-HxCDF	0.513	2.052		E		0.2565		0.1	0.0		2.2%	0.0%
2,3,4,6,7,8-HxCDF	0.538	2.152		--		0.269		0.1	0.0		2.4%	0.0%
1,2,3,7,8,9-HxCDF	0.976	3.904		--	<5x*B	0.488		0.1	0.0		4.3%	0.0%
1,2,3,4,7,8-HxCDD	0.14	0.56	1	B	<5x*B	1	0.5	0.1	0.1	0.1	8.7%	7.9%
1,2,3,6,7,8-HxCDD	0.121	0.484	1.71	I		1.71	1.71	0.1	0.2	0.2	15.0%	27.1%
1,2,3,7,8,9-HxCDD	0.571	2.284		E		0.2855		0.1	0.0		2.5%	0.0%
1,2,3,4,6,7,8-HpCDF	31.2	124.8		D	<5x*B	7.8		0.01	0.1		6.8%	0.0%
1,2,3,4,7,8,9-HpCDF	2.61	10.44		E		1.305		0.01	0.0		1.1%	0.0%
1,2,3,4,6,7,8-HpCDD	0.471	1.884	33.2	--		33.2	33.2	0.01	0.3	0.3	29.0%	52.6%
OCDF	0.67	2.68	45	--		45	45	0.0001	0.0	0.0	0.4%	0.7%
OCDD	0.676	2.704	271	--		271	271	0.0001	0.0	0.0	2.4%	4.3%
PCB-77	4.02	16.08		E	<5x*B	2.01		0.0001	0.0		0.0%	0.0%
PCB-81	0.116	0.464	0.382	B	<5x*B	0.382	0.0955	0.0001	0.0	0.0	0.0%	0.0%
PCB-105	0.77	3.08	83.9	--		83.9	83.9	0.0001	0.0	0.0	0.7%	1.3%
PCB-114	0.765	3.06	4.52	B	<5x*B	4.52	2.26	0.0005	0.0	0.0	0.2%	0.2%
PCB-118	0.67	2.68	189	--		189	189	0.0001	0.0	0.0	1.7%	3.0%
PCB-123	0.754	3.016		--		0.377		0.0001	0.0		0.0%	0.0%
PCB-126	0.666	2.664		E		0.333		0.1	0.0		2.9%	0.0%
PCB-156	0.328	1.312	29.1	--		29.1	29.1	0.0005	0.0	0.0	1.3%	2.3%
PCB-157	0.346	1.384	7.55	--		7.55	7.55	0.0005	0.0	0.0	0.3%	0.6%
PCB-167	0.319	1.276	12	--		12	12	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	0.0374	0.1496		--		0.0187		0.01	0.0		0.0%	0.0%
PCB-189	1.91	7.64		E		0.955		0.0001	0.0		0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
1.1	0.6	0.1	0.0	1.1	0.6

## APPENDIX A2. Quality Control Results

Sample ID	339	PE Clean	Ref-F-27										
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	0.0504	0.2016	--		0.0252		0.1	0.0			0.1%	0.0%	
2,3,7,8-TCDD	0.0161	0.0644	--		0.00805		1	0.0			0.4%	0.0%	
1,2,3,7,8-PeCDF	0.322	1.288	E		0.161		0.05	0.0			0.4%	0.0%	
2,3,4,7,8-PeCDF	0.0359	0.1436	0.273	--	0.273	0.273	0.5	0.1	0.1	0.1	6.8%	7.9%	
1,2,3,7,8-PeCDD	0.0443	0.1772	0.767	--	0.767	0.767	1	0.8	0.8	0.8	38.2%	44.1%	
1,2,3,4,7,8-HxCDF	0.111	0.444	0.627	--	0.627	0.627	0.1	0.1	0.1	0.1	3.1%	3.6%	
1,2,3,6,7,8-HxCDF	0.0925	0.37	0.559	I	0.559	0.559	0.1	0.1	0.1	0.1	2.8%	3.2%	
2,3,4,6,7,8-HxCDF	0.144	0.576	0.56	B	<5x*B	0.56	0.14	0.1	0.1	0.0	2.8%	0.8%	
1,2,3,7,8,9-HxCDF	0.212	0.848	0.568	B	<5x*B	0.568	0.142	0.1	0.1	0.0	2.8%	0.8%	
1,2,3,4,7,8-HxCDD	0.749	2.996	E		0.3745		0.1	0.0			1.9%	0.0%	
1,2,3,6,7,8-HxCDD	0.0416	0.1664	1.66	I	1.66	1.66	0.1	0.2	0.2	0.2	8.3%	9.6%	
1,2,3,7,8,9-HxCDD	0.0469	0.1876	0.788	IJ	0.788	0.394	0.1	0.1	0.0	0.0	3.9%	2.3%	
1,2,3,4,6,7,8-HpCDF	5.91	23.64	D		1.4775		0.01	0.0			0.7%	0.0%	
1,2,3,4,7,8,9-HpCDF	0.0783	0.3132	0.579	--	0.579	0.579	0.01	0.0	0.0	0.0	0.3%	0.3%	
1,2,3,4,6,7,8-HpCDD	0.126	0.504	36.7	--	36.7	36.7	0.01	0.4	0.4	0.4	18.3%	21.1%	
OCDF	0.0259	0.1036	7.13	J	7.13	3.565	0.0001	0.0	0.0	0.0	0.0%	0.0%	
OCDD	0.0841	0.3364	296	--	296	296	0.0001	0.0	0.0	0.0	1.5%	1.7%	
PCB-77	0.0839	0.3356	9.03	B	<5x*B	9.03	4.515	0.0001	0.0	0.0	0.0%	0.0%	
PCB-81	0.0815	0.326	0.676	B	<5x*B	0.676	0.338	0.0001	0.0	0.0	0.0%	0.0%	
PCB-105	0.444	1.776	85.8	B	<5x*B	85.8	42.9	0.0001	0.0	0.0	0.4%	0.2%	
PCB-114	0.464	1.856	5.07	--	5.07	5.07	0.0005	0.0	0.0	0.0	0.1%	0.1%	
PCB-118	0.497	1.988	187	B	<5x*B	187	93.5	0.0001	0.0	0.0	0.9%	0.5%	
PCB-123	0.565	2.26	--		0.2825		0.0001	0.0			0.0%	0.0%	
PCB-126	0.175	0.7	1.08	BJ	<5x*B	1.08	0.54	0.1	0.1	0.1	5.4%	3.1%	
PCB-156	1.22	4.88	21.3	B	<5x*B	21.3	10.65	0.0005	0.0	0.0	0.5%	0.3%	
PCB-157	1.26	5.04	5.59	--	5.59	5.59	0.0005	0.0	0.0	0.0	0.1%	0.2%	
PCB-167	1.24	4.96	12.7	--	12.7	12.7	0.00001	0.0	0.0	0.0	0.0%	0.0%	
PCB-169	0.0796	0.3184	0.226	J	0.226	0.0565	0.01	0.0	0.0	0.0	0.1%	0.0%	
PCB-189	0.881	3.524	1.88	--	1.88	0.94	0.0001	0.0	0.0	0.0	0.0%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
1.9	1.7	0.2	0.1	2.0	1.7

Sample ID	681	PE Clean	blank										
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	0.0216	0.0864	0.194	NJ		0.097		0.1	0.0		0.4%	0.0%	
2,3,7,8-TCDD	0.00469	0.0188	--		0.002345			1	0.0		0.1%	0.0%	
1,2,3,7,8-PeCDF	0.0726	0.2904	0.411	--		0.411	0.411	0.05	0.0	0.0	0.8%	0.9%	
2,3,4,7,8-PeCDF	0.0458	0.1832	0.368	--		0.368	0.368	0.5	0.2	0.2	7.1%	7.7%	
1,2,3,7,8-PeCDD	0.0173	0.0692	0.845	--		0.845	0.845	1	0.8	0.8	32.5%	35.4%	
1,2,3,4,7,8-HxCDF	0.0282	0.1128	0.711	--		0.711	0.711	0.1	0.1	0.1	2.7%	3.0%	
1,2,3,6,7,8-HxCDF	0.0355	0.142	0.497	--		0.497	0.497	0.1	0.0	0.0	1.9%	2.1%	
2,3,4,6,7,8-HxCDF	0.0387	0.1548	0.585	B	<5x*B	0.585	0.2925	0.1	0.1	0.0	2.3%	1.2%	
1,2,3,7,8,9-HxCDF	0.0526	0.2104	0.611	B	<5x*B	0.611	0.3055	0.1	0.1	0.0	2.4%	1.3%	
1,2,3,4,7,8-HxCDD	0.00953	0.0381	0.989	--		0.989	0.989	0.1	0.1	0.1	3.8%	4.1%	
1,2,3,6,7,8-HxCDD	0.00837	0.0335	2.03	--		2.03	2.03	0.1	0.2	0.2	7.8%	8.5%	
1,2,3,7,8,9-HxCDD	1.24	4.96	EJ			0.62		0.1	0.1		2.4%	0.0%	
1,2,3,4,6,7,8-HpCDF	0.0329	0.1316	5.7	I		5.7	5.7	0.01	0.1	0.1	2.2%	2.4%	
1,2,3,4,7,8,9-HpCDF	0.0472	0.1888	0.576	--		0.576	0.576	0.01	0.0	0.0	0.2%	0.2%	
1,2,3,4,6,7,8-HpCDD	0.0335	0.134	57.8	--		57.8	57.8	0.01	0.6	0.6	22.2%	24.2%	
OCDF	0.0154	0.0616	8.8	--		8.8	8.8	0.0001	0.0	0.0	0.0%	0.0%	
OCDD	0.0217	0.0868	638	--		638	638	0.0001	0.1	0.1	2.5%	2.7%	
PCB-77	0.0498	0.1992	10.3	B	<5x*B	10.3	5.15	0.0001	0.0	0.0	0.0%	0.0%	
PCB-81	0.0495	0.198	1.03	BJ	<5x*B	1.03	0.515	0.0001	0.0	0.0	0.0%	0.0%	
PCB-105	2.56	10.24	139	--		139	139	0.0001	0.0	0.0	0.5%	0.6%	
PCB-114	2.67	10.68	7.61	--		7.61	3.805	0.0005	0.0	0.0	0.2%	0.1%	
PCB-118	3.06	12.24	308	--		308	308	0.0001	0.0	0.0	1.2%	1.3%	
PCB-123	3.48	13.92	7.52	--		7.52	3.76	0.0001	0.0	0.0	0.0%	0.0%	
PCB-126	0.143	0.572	1.48	BJ	<5x*B	1.48	0.74	0.1	0.1	0.1	5.7%	3.1%	
PCB-156	0.323	1.292	43.3	--		43.3	43.3	0.0005	0.0	0.0	0.8%	0.9%	
PCB-157	0.334	1.336	11	--		11	11	0.0005	0.0	0.0	0.2%	0.2%	
PCB-167	0.329	1.316	17.3	--		17.3	17.3	0.00001	0.0	0.0	0.0%	0.0%	
PCB-169	0.481	1.924	E		0.2405			0.01	0.0		0.1%	0.0%	
PCB-189	0.243	0.972	2.91	--		2.91	2.91	0.0001	0.0	0.0	0.0%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
2.4	2.2	0.2	0.1	2.6	2.4

Sample ID	779	PE Clean	Ref-F-16									
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.0372	0.1488		J	0.0186		0.1	0.0			0.1%	0.0%
2,3,7,8-TCDD	0.014	0.056		J	0.007		1	0.0			0.4%	0.0%
1,2,3,7,8-PeCDF	0.0514	0.2056		J	0.0257		0.05	0.0			0.1%	0.0%
2,3,4,7,8-PeCDF	0.0451	0.1804		J	0.02255		0.5	0.0			0.6%	0.0%
1,2,3,7,8-PeCDD	0.106	0.424	0.502	J	0.502	0.251	1	0.5	0.3	24.9%	27.9%	
1,2,3,4,7,8-HxCDF	0.764	3.056		EJ	0.382		0.1	0.0			1.9%	0.0%
1,2,3,6,7,8-HxCDF	1.37	5.48		EDJ	0.3425		0.1	0.0			1.7%	0.0%
2,3,4,6,7,8-HxCDF	0.122	0.488	0.472	BJ	<5x*B	0.472	0.118	0.1	0.0	0.0	2.3%	1.3%
1,2,3,7,8,9-HxCDF	0.487	1.948		EJ	<5x*B	0.2435		0.1	0.0		1.2%	0.0%
1,2,3,4,7,8-HxCDD	0.0672	0.2688	1.03	J	1.03	0.515	0.1	0.1	0.1	0.1	5.1%	5.7%
1,2,3,6,7,8-HxCDD	0.0574	0.2296	2	J	2	1	0.1	0.2	0.1	0.1	9.9%	11.1%
1,2,3,7,8,9-HxCDD	0.0561	0.2244	1.38	J	1.38	0.69	0.1	0.1	0.1	0.1	6.8%	7.7%
1,2,3,4,6,7,8-HpCDF	11.4	45.6		DJ	2.85		0.01	0.0			1.4%	0.0%
1,2,3,4,7,8,9-HpCDF	0.165	0.66	0.529	BJ	<5x*B	0.529	0.13225	0.01	0.0	0.0	0.3%	0.2%
1,2,3,4,6,7,8-HpCDD	0.219	0.876	66.4	J	66.4	33.2	0.01	0.7	0.3	0.3	32.9%	36.9%
OCDF	0.0859	0.3436	9.86	BJ	<5x*B	9.86	4.93	0.0001	0.0	0.0	0.1%	0.1%
OCDD	0.808	3.232	770	J	770	385	0.0001	0.1	0.0	0.0	3.8%	4.3%
PCB-77	1.94	7.76	5.99	B	<5x*B	5.99	1.4975	0.0001	0.0	0.0	0.0%	0.0%
PCB-81	1.53	6.12		J	0.765		0.0001	0.0			0.0%	0.0%
PCB-105	1.05	4.2	116	J	116	58	0.0001	0.0	0.0	0.0	0.6%	0.6%
PCB-114	1.03	4.12	6.06	B	<5x*B	6.06	3.03	0.0005	0.0	0.0	0.2%	0.2%
PCB-118	0.897	3.588	256	BJ	<5x*B	256	128	0.0001	0.0	0.0	1.3%	1.4%
PCB-123	0.982	3.928	5.63	--	5.63	5.63	0.0001	0.0	0.0	0.0	0.0%	0.1%
PCB-126	1.32	5.28		I	0.66		0.1	0.1			3.3%	0.0%
PCB-156	0.308	1.232	36.3	--	36.3	36.3	0.0005	0.0	0.0	0.0	0.9%	2.0%
PCB-157	0.32	1.28	9.35	--	9.35	9.35	0.0005	0.0	0.0	0.0	0.2%	0.5%
PCB-167	0.283	1.132	14.5	J	14.5	7.25	0.00001	0.0	0.0	0.0	0.0%	0.0%
PCB-169	0.286	1.144		--	0.143		0.01	0.0			0.1%	0.0%
PCB-189	0.205	0.82	2.44	BJ	<5x*B	2.44	1.22	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
1.9	0.9	0.1	0.0	2.0	0.9

Sample ID	206	PE Low Std	PEL-F4									
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant
2,3,7,8-TCDF	0.522	2.088	3.94	NJ		1.97		0.1	0.2		0.3%	0.0%
2,3,7,8-TCDD	0.18	0.72	11.2	I		11.2	11.2	1	11.2	11.2	15.4%	15.5%
1,2,3,7,8-PeCDF	0.271	1.084	96.8	--		96.8	96.8	0.05	4.8	4.8	6.6%	6.7%
2,3,4,7,8-PeCDF	0.23	0.92	26.9	--		26.9	26.9	0.5	13.5	13.5	18.5%	18.6%
1,2,3,7,8-PeCDD	0.236	0.944	20.8	I		20.8	20.8	1	20.8	20.8	28.5%	28.8%
1,2,3,4,7,8-HxCDF	0.48	1.92	29.7	--		29.7	29.7	0.1	3.0	3.0	4.1%	4.1%
1,2,3,6,7,8-HxCDF	0.443	1.772	2.13	--		2.13	2.13	0.1	0.2	0.2	0.3%	0.3%
2,3,4,6,7,8-HxCDF	0.555	2.22	75.2	I		75.2	75.2	0.1	7.5	7.5	10.3%	10.4%
1,2,3,7,8,9-HxCDF	0.651	2.604	65.2	--		65.2	65.2	0.1	6.5	6.5	8.9%	9.0%
1,2,3,4,7,8-HxCDD	0.193	0.772	9.84	I		9.84	9.84	0.1	1.0	1.0	1.4%	1.4%
1,2,3,6,7,8-HxCDD	0.164	0.656	14.5	--		14.5	14.5	0.1	1.5	1.5	2.0%	2.0%
1,2,3,7,8,9-HxCDD	0.165	0.66	3.22	J		3.22	1.61	0.1	0.3	0.2	0.4%	0.2%
1,2,3,4,6,7,8-HpCDF	7.15	28.6		D	<5x*B	1.7875		0.01	0.0		0.0%	0.0%
1,2,3,4,7,8,9-HpCDF	0.445	1.78	63.4	--		63.4	63.4	0.01	0.6	0.6	0.9%	0.9%
1,2,3,4,6,7,8-HpCDD	0.176	0.704	99.2	--		99.2	99.2	0.01	1.0	1.0	1.4%	1.4%
OCDF	0.176	0.704	33.6	B	<5x*B	33.6	16.8	0.0001	0.0	0.0	0.0%	0.0%
OCDD	0.194	0.776	382	--		382	382	0.0001	0.0	0.0	0.1%	0.1%
PCB-77	4.5	18	20.3	BIJ	<5x*B	20.3	10.15	0.0001	0.0	0.0	0.0%	0.0%
PCB-81	5.19	20.76		IJ		2.595		0.0001	0.0		0.0%	0.0%
PCB-105	15	60	627	CJ		627	313.5	0.0001	0.1	0.0	0.1%	0.0%
PCB-114	14.6	58.4	31.8	--		31.8	15.9	0.0005	0.0	0.0	0.0%	0.0%
PCB-118	13.3	53.2	1280	CJ		1280	640	0.0001	0.1	0.1	0.2%	0.1%
PCB-123	14	56		--	<5x*B	7		0.0001	0.0		0.0%	0.0%
PCB-126	1.81	7.24	3.73	I		3.73	1.865	0.1	0.4	0.2	0.5%	0.3%
PCB-156	1.7	6.8	190	--		190	190	0.0005	0.1	0.1	0.1%	0.1%
PCB-157	1.81	7.24	45	--		45	45	0.0005	0.0	0.0	0.0%	0.0%
PCB-167	1.7	6.8	70.7	--		70.7	70.7	0.00001	0.0	0.0	0.0%	0.0%
PCB-169	1.43	5.72		EI		0.715		0.01	0.0		0.0%	0.0%
PCB-189	1.55	6.2	9.58	--		9.58	9.58	0.0001	0.0	0.0	0.0%	0.0%

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
72.2	71.8	0.7	0.4	72.9	72.2

Sample ID	943	PE Low Std	PEL-F-10										
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	0.0252	0.1008	3.39	NJ		1.695		0.1	0.2		0.3%	0.0%	
2,3,7,8-TCDD	0.0112	0.0448	10.4	--		10.4	10.4	1	10.4	10.4	15.3%	15.4%	
1,2,3,7,8-PeCDF	0.0285	0.114	97.1	--		97.1	97.1	0.05	4.9	4.9	7.2%	7.2%	
2,3,4,7,8-PeCDF	0.0216	0.0864	26.4	--		26.4	26.4	0.5	13.2	13.2	19.5%	19.5%	
1,2,3,7,8-PeCDD	0.00115	0.0046	18.7	--		18.7	18.7	1	18.7	18.7	27.6%	27.7%	
1,2,3,4,7,8-HxCDF	0.0528	0.2112	28.5	--		28.5	28.5	0.1	2.9	2.9	4.2%	4.2%	
1,2,3,6,7,8-HxCDF	0.0473	0.1892	1.24	--		1.24	1.24	0.1	0.1	0.1	0.2%	0.2%	
2,3,4,6,7,8-HxCDF	0.0582	0.2328	64.7	--		64.7	64.7	0.1	6.5	6.5	9.5%	9.6%	
1,2,3,7,8,9-HxCDF	0.0836	0.3344	64.2	--		64.2	64.2	0.1	6.4	6.4	9.5%	9.5%	
1,2,3,4,7,8-HxCDD	0.0245	0.098	8.81	--		8.81	8.81	0.1	0.9	0.9	1.3%	1.3%	
1,2,3,6,7,8-HxCDD	0.0228	0.0912	13.3	--		13.3	13.3	0.1	1.3	1.3	2.0%	2.0%	
1,2,3,7,8,9-HxCDD	0.0244	0.0976	2.24	--		2.24	2.24	0.1	0.2	0.2	0.3%	0.3%	
1,2,3,4,6,7,8-HpCDF	11	44	D	<5x*B		2.75		0.01	0.0		0.0%	0.0%	
1,2,3,4,7,8,9-HpCDF	0.105	0.42	60.7	--		60.7	60.7	0.01	0.6	0.6	0.9%	0.9%	
1,2,3,4,6,7,8-HpCDD	0.0239	0.0956	90	--		90	90	0.01	0.9	0.9	1.3%	1.3%	
OCDF	0.0329	0.1316	30.7	--		30.7	30.7	0.0001	0.0	0.0	0.0%	0.0%	
OCDD	0.0459	0.1836	406	--		406	406	0.0001	0.0	0.0	0.1%	0.1%	
PCB-77	0.0807	0.3228	16.3	B	<5x*B	16.3	8.15	0.0001	0.0	0.0	0.0%	0.0%	
PCB-81	0.0778	0.3112	0.828	B	<5x*B	0.828	0.414	0.0001	0.0	0.0	0.0%	0.0%	
PCB-105	1.57	6.28	701	CJ		701	350.5	0.0001	0.1	0.0	0.1%	0.1%	
PCB-114	1.56	6.24	33.3	--		33.3	33.3	0.0005	0.0	0.0	0.0%	0.0%	
PCB-118	1.33	5.32	1410	CJ		1410	705	0.0001	0.1	0.1	0.2%	0.1%	
PCB-123	1.49	5.96	--			0.745		0.0001	0.0		0.0%	0.0%	
PCB-126	0.458	1.832	3.18	--		3.18	3.18	0.1	0.3	0.3	0.5%	0.5%	
PCB-156	0.391	1.564	203	--		203	203	0.0005	0.1	0.1	0.2%	0.2%	
PCB-157	0.412	1.648	47.1	--		47.1	47.1	0.0005	0.0	0.0	0.0%	0.0%	
PCB-167	0.379	1.516	73.6	--		73.6	73.6	0.00001	0.0	0.0	0.0%	0.0%	
PCB-169	1.05	4.2	E			0.525		0.01	0.0		0.0%	0.0%	
PCB-189	0.354	1.416	9.59	--		9.59	9.59	0.0001	0.0	0.0	0.0%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
67.2	67.0	0.7	0.6	67.9	67.6

Sample ID	PC00268	PE Low Std	PEL													
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ					
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	Full	Quant	Full	Quant
2,3,7,8-TCDF	0.0367	0.1468	2.86	NJ		1.43		0.1	0.1		0.3%	0.0%				
2,3,7,8-TCDD	0.0163	0.0652	8.14	--		8.14	8.14	1	8.1	8.1	16.2%	16.3%				
1,2,3,7,8-PeCDF	0.0831	0.3324	73	--		73	73	0.05	3.7	3.7	7.3%	7.3%				
2,3,4,7,8-PeCDF	0.038	0.152	18.9	--		18.9	18.9	0.5	9.5	9.5	18.8%	19.0%				
1,2,3,7,8-PeCDD	0.0239	0.0956	13.5	--		13.5	13.5	1	13.5	13.5	26.8%	27.1%				
1,2,3,4,7,8-HxCDF	0.0517	0.2068	19.4	--		19.4	19.4	0.1	1.9	1.9	3.9%	3.9%				
1,2,3,6,7,8-HxCDF	0.0581	0.2324	1.45	--		1.45	1.45	0.1	0.1	0.1	0.3%	0.3%				
2,3,4,6,7,8-HxCDF	0.0769	0.3076	50.7	--		50.7	50.7	0.1	5.1	5.1	10.1%	10.2%				
1,2,3,7,8,9-HxCDF	0.0969	0.3876	49.1	--		49.1	49.1	0.1	4.9	4.9	9.8%	9.9%				
1,2,3,4,7,8-HxCDD	0.0233	0.0932	6.02	--		6.02	6.02	0.1	0.6	0.6	1.2%	1.2%				
1,2,3,6,7,8-HxCDD	0.0189	0.0756	10	--		10	10	0.1	1.0	1.0	2.0%	2.0%				
1,2,3,7,8,9-HxCDD	0.0216	0.0864	1.57	J		1.57	0.785	0.1	0.2	0.1	0.3%	0.2%				
1,2,3,4,6,7,8-HpCDF	0.0461	0.1844	4.08	--		4.08	4.08	0.01	0.0	0.0	0.1%	0.1%				
1,2,3,4,7,8,9-HpCDF	0.0612	0.2448	38.4	--		38.4	38.4	0.01	0.4	0.4	0.8%	0.8%				
1,2,3,4,6,7,8-HpCDD	0.0743	0.2972	57	--		57	57	0.01	0.6	0.6	1.1%	1.1%				
OCDF	0.029	0.116	18.6	J		18.6	9.3	0.0001	0.0	0.0	0.0%	0.0%				
OCDD	0.0391	0.1564	230	--		230	230	0.0001	0.0	0.0	0.1%	0.1%				
PCB-77	0.103	0.412	16.6	B	<5x*B	16.6	8.3	0.0001	0.0	0.0	0.0%	0.0%				
PCB-81	0.0973	0.3892	1.02	B	<5x*B	1.02	0.51	0.0001	0.0	0.0	0.0%	0.0%				
PCB-105	0.355	1.42	612	CJ		612	306	0.0001	0.1	0.0	0.1%	0.1%				
PCB-114	0.371	1.484	29.5	--		29.5	29.5	0.0005	0.0	0.0	0.0%	0.0%				
PCB-118	0.422	1.688	1220	CJ		1220	610	0.0001	0.1	0.1	0.2%	0.1%				
PCB-123	0.479	1.916	18.2	--		18.2	18.2	0.0001	0.0	0.0	0.0%	0.0%				
PCB-126	0.279	1.116	2.81	J		2.81	1.405	0.1	0.3	0.1	0.6%	0.3%				
PCB-156	0.46	1.84	166	--		166	166	0.0005	0.1	0.1	0.2%	0.2%				
PCB-157	0.476	1.904	31.4	--		31.4	31.4	0.0005	0.0	0.0	0.0%	0.0%				
PCB-167	0.468	1.872	57.7	--		57.7	57.7	0.00001	0.0	0.0	0.0%	0.0%				
PCB-169	0.901	3.604	E			0.4505		0.01	0.0		0.0%	0.0%				
PCB-189	0.176	0.704	6.46	--		6.46	6.46	0.0001	0.0	0.0	0.0%	0.0%				

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
49.7	49.5	0.6	0.3	50.3	49.9

Sample ID	PC00353	PE Low Std	PEL													
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ					
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	Full	Quant	Full	Quant
2,3,7,8-TCDF	0.152	0.608	1.37	NJ		0.685		0.1	0.1		0.3%	0.0%				
2,3,7,8-TCDD	0.0183	0.0732	4.07	--		4.07	4.07	1	4.1	4.1	15.4%	15.5%				
1,2,3,7,8-PeCDF	0.105	0.42	35.6	--		35.6	35.6	0.05	1.8	1.8	6.7%	6.8%				
2,3,4,7,8-PeCDF	0.0976	0.3904	10	--		10	10	0.5	5.0	5.0	18.9%	19.1%				
1,2,3,7,8-PeCDD	0.0303	0.1212	7.01	--		7.01	7.01	1	7.0	7.0	26.5%	26.8%				
1,2,3,4,7,8-HxCDF	0.0683	0.2732	11.2	--		11.2	11.2	0.1	1.1	1.1	4.2%	4.3%				
1,2,3,6,7,8-HxCDF	0.0593	0.2372	0.69	--		0.69	0.69	0.1	0.1	0.1	0.3%	0.3%				
2,3,4,6,7,8-HxCDF	0.0772	0.3088	27	--		27	27	0.1	2.7	2.7	10.2%	10.3%				
1,2,3,7,8,9-HxCDF	0.106	0.424	25.4	--		25.4	25.4	0.1	2.5	2.5	9.6%	9.7%				
1,2,3,4,7,8-HxCDD	0.0093	0.0372	3.73	--		3.73	3.73	0.1	0.4	0.4	1.4%	1.4%				
1,2,3,6,7,8-HxCDD	0.00847	0.0339	5.4	--		5.4	5.4	0.1	0.5	0.5	2.0%	2.1%				
1,2,3,7,8,9-HxCDD	0.00837	0.0335	1.01	--		1.01	1.01	0.1	0.1	0.1	0.4%	0.4%				
1,2,3,4,6,7,8-HpCDF	2.61	10.44	D		0.6525			0.01	0.0		0.0%	0.0%				
1,2,3,4,7,8,9-HpCDF	0.188	0.752	25.7	--		25.7	25.7	0.01	0.3	0.3	1.0%	1.0%				
1,2,3,4,6,7,8-HpCDD	0.0788	0.3152	36.7	--		36.7	36.7	0.01	0.4	0.4	1.4%	1.4%				
OCDF	0.00468	0.0187	13.1	B	<5x*B	13.1	6.55	0.0001	0.0	0.0	0.0%	0.0%				
OCDD	0.0486	0.1944	166	--		166	166	0.0001	0.0	0.0	0.1%	0.1%				
PCB-77	0.37	1.48	8	B	<5x*B	8	4	0.0001	0.0	0.0	0.0%	0.0%				
PCB-81	0.322	1.288	0.345	J		0.345	0.08625	0.0001	0.0	0.0	0.0%	0.0%				
PCB-105	4.8	19.2	588	CJ		588	294	0.0001	0.1	0.0	0.2%	0.1%				
PCB-114	4.7	18.8	28.8	--		28.8	28.8	0.0005	0.0	0.0	0.1%	0.1%				
PCB-118	4.24	16.96	1180	CJ		1180	590	0.0001	0.1	0.1	0.5%	0.2%				
PCB-123	4.64	18.56	26.9	--		26.9	26.9	0.0001	0.0	0.0	0.0%	0.0%				
PCB-126	1.15	4.6	1.51	J		1.51	0.3775	0.1	0.2	0.0	0.6%	0.1%				
PCB-156	0.307	1.228	158	--		158	158	0.0005	0.1	0.1	0.3%	0.3%				
PCB-157	0.319	1.276	35.7	--		35.7	35.7	0.0005	0.0	0.0	0.1%	0.1%				
PCB-167	0.282	1.128	52.9	--		52.9	52.9	0.00001	0.0	0.0	0.0%	0.0%				
PCB-169	0.409	1.636	EI		0.2045			0.01	0.0		0.0%	0.0%				
PCB-189	0.249	0.996	7.07	J		7.07	3.535	0.0001	0.0	0.0	0.0%	0.0%				

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
26.0	25.9	0.4	0.2	26.5	26.2

Sample ID	PC00359	PE Low Std	PEL													
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ					
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	Full	Quant	Full	Quant
2,3,7,8-TCDF	0.0436	0.1744	2.14	NJ		1.07		0.1	0.1		0.2%	0.0%				
2,3,7,8-TCDD	0.0214	0.0856	7.5	--		7.5	7.5	1	7.5	7.5	16.4%	16.5%				
1,2,3,7,8-PeCDF	0.00537	0.0215	64.9	--		64.9	64.9	0.05	3.2	3.2	7.1%	7.1%				
2,3,4,7,8-PeCDF	0.0041	0.0164	17.9	--		17.9	17.9	0.5	9.0	9.0	19.6%	19.7%				
1,2,3,7,8-PeCDD	0.00127	0.0051	11.9	--		11.9	11.9	1	11.9	11.9	26.1%	26.2%				
1,2,3,4,7,8-HxCDF	0.0726	0.2904	19.2	--		19.2	19.2	0.1	1.9	1.9	4.2%	4.2%				
1,2,3,6,7,8-HxCDF	0.0659	0.2636	0.926	--		0.926	0.926	0.1	0.1	0.1	0.2%	0.2%				
2,3,4,6,7,8-HxCDF	0.0982	0.3928	45.1	--		45.1	45.1	0.1	4.5	4.5	9.9%	9.9%				
1,2,3,7,8,9-HxCDF	0.161	0.644	42.9	--		42.9	42.9	0.1	4.3	4.3	9.4%	9.4%				
1,2,3,4,7,8-HxCDD	0.0371	0.1484	5.61	--		5.61	5.61	0.1	0.6	0.6	1.2%	1.2%				
1,2,3,6,7,8-HxCDD	0.0328	0.1312	9.47	--		9.47	9.47	0.1	0.9	0.9	2.1%	2.1%				
1,2,3,7,8,9-HxCDD	0.036	0.144	1.31	--		1.31	1.31	0.1	0.1	0.1	0.3%	0.3%				
1,2,3,4,6,7,8-HpCDF	8.04	32.16		D	<5x*B	2.01		0.01	0.0		0.0%	0.0%				
1,2,3,4,7,8,9-HpCDF	0.192	0.768	41.9	--		41.9	41.9	0.01	0.4	0.4	0.9%	0.9%				
1,2,3,4,6,7,8-HpCDD	0.104	0.416	56.5	--		56.5	56.5	0.01	0.6	0.6	1.2%	1.2%				
OCDF	0.143	0.572	24.9	--		24.9	24.9	0.0001	0.0	0.0	0.0%	0.0%				
OCDD	0.199	0.796	228	--		228	228	0.0001	0.0	0.0	0.1%	0.1%				
PCB-77	0.103	0.412	12.6	B	<5x*B	12.6	6.3	0.0001	0.0	0.0	0.0%	0.0%				
PCB-81	0.105	0.42	0.734	B	<5x*B	0.734	0.367	0.0001	0.0	0.0	0.0%	0.0%				
PCB-105	3.99	15.96	486	--		486	486	0.0001	0.0	0.0	0.1%	0.1%				
PCB-114	3.97	15.88	25.2	--		25.2	25.2	0.0005	0.0	0.0	0.0%	0.0%				
PCB-118	3.54	14.16	967	CJ		967	483.5	0.0001	0.1	0.0	0.2%	0.1%				
PCB-123	3.98	15.92		--		1.99		0.0001	0.0		0.0%	0.0%				
PCB-126	0.503	2.012	2.42	--		2.42	2.42	0.1	0.2	0.2	0.5%	0.5%				
PCB-156	0.355	1.42	134	--		134	134	0.0005	0.1	0.1	0.2%	0.2%				
PCB-157	0.374	1.496	33	--		33	33	0.0005	0.0	0.0	0.0%	0.0%				
PCB-167	0.345	1.38	46.8	--		46.8	46.8	0.00001	0.0	0.0	0.0%	0.0%				
PCB-169	0.654	2.616		E		0.327		0.01	0.0		0.0%	0.0%				
PCB-189	0.455	1.82	5.83	--		5.83	5.83	0.0001	0.0	0.0	0.0%	0.0%				

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
45.2	45.1	0.5	0.4	45.7	45.5

Sample ID	201	PE Med Std	PEM-F-10										
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	0.0361	0.1444	6.22	NJ		3.11		0.1	0.3		0.2%	0.0%	
2,3,7,8-TCDD	0.0204	0.0816	53.5	--		53.5	53.5	1	53.5	53.5	41.5%	42.5%	
1,2,3,7,8-PeCDF	0.0173	0.0692	37.9	--		37.9	37.9	0.05	1.9	1.9	1.5%	1.5%	
2,3,4,7,8-PeCDF	0.971	3.884		E		0.4855		0.5	0.2		0.2%	0.0%	
1,2,3,7,8-PeCDD	0.00541	0.0216	42.2	--		42.2	42.2	1	42.2	42.2	32.7%	33.5%	
1,2,3,4,7,8-HxCDF	0.0333	0.1332	39.6	--		39.6	39.6	0.1	4.0	4.0	3.1%	3.1%	
1,2,3,6,7,8-HxCDF	0.0293	0.1172	1.64	--		1.64	1.64	0.1	0.2	0.2	0.1%	0.1%	
2,3,4,6,7,8-HxCDF	0.0344	0.1376	31.1	--		31.1	31.1	0.1	3.1	3.1	2.4%	2.5%	
1,2,3,7,8,9-HxCDF	0.0433	0.1732	8.31	--		8.31	8.31	0.1	0.8	0.8	0.6%	0.7%	
1,2,3,4,7,8-HxCDD	0.0361	0.1444	35.7	--		35.7	35.7	0.1	3.6	3.6	2.8%	2.8%	
1,2,3,6,7,8-HxCDD	0.0327	0.1308	2.88	--		2.88	2.88	0.1	0.3	0.3	0.2%	0.2%	
1,2,3,7,8,9-HxCDD	0.0355	0.142	65.7	--		65.7	65.7	0.1	6.6	6.6	5.1%	5.2%	
1,2,3,4,6,7,8-HpCDF	0.0497	0.1988	49.9	--		49.9	49.9	0.01	0.5	0.5	0.4%	0.4%	
1,2,3,4,7,8,9-HpCDF	0.0771	0.3084	26.4	--		26.4	26.4	0.01	0.3	0.3	0.2%	0.2%	
1,2,3,4,6,7,8-HpCDD	0.0532	0.2128	48.4	--		48.4	48.4	0.01	0.5	0.5	0.4%	0.4%	
OCDF	0.0506	0.2024	146	--		146	146	0.0001	0.0	0.0	0.0%	0.0%	
OCDD	0.0505	0.202	443	--		443	443	0.0001	0.0	0.0	0.0%	0.0%	
PCB-77	0.865	3.46	199	--		199	199	0.0001	0.0	0.0	0.0%	0.0%	
PCB-81	0.882	3.528	8.17	--		8.17	8.17	0.0001	0.0	0.0	0.0%	0.0%	
PCB-105	14.6	58.4	10800	CJ		10800	5400	0.0001	1.1	0.5	0.8%	0.4%	
PCB-114	14.5	58	698	CJ		698	349	0.0005	0.3	0.2	0.3%	0.1%	
PCB-118	13	52	19700	SJ		19700	9850	0.0001	2.0	1.0	1.5%	0.8%	
PCB-123	14.6	58.4		--		7.3		0.0001	0.0		0.0%	0.0%	
PCB-126	8.18	32.72	58.7	--		58.7	58.7	0.1	5.9	5.9	4.5%	4.7%	
PCB-156	2.78	11.12	2820	CJ		2820	1410	0.0005	1.4	0.7	1.1%	0.6%	
PCB-157	2.92	11.68	649	CJ		649	324.5	0.0005	0.3	0.2	0.3%	0.1%	
PCB-167	2.7	10.8	1080	CJ		1080	540	0.00001	0.0	0.0	0.0%	0.0%	
PCB-169	7.79	31.16		E		3.895		0.01	0.0		0.0%	0.0%	
PCB-189	1.11	4.44	113	--		113	113	0.0001	0.0	0.0	0.0%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
117.9	117.4	11.1	8.5	129.0	125.9

Sample ID	573	PE Med Std	PEM-F-4										
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	0.689	2.756	6.26	NJ		3.13		0.1	0.3		0.2%	0.0%	
2,3,7,8-TCDD	0.49	1.96	54	--		54	54	1	54.0	54.0	39.5%	41.2%	
1,2,3,7,8-PeCDF	0.205	0.82	36.9	--		36.9	36.9	0.05	1.8	1.8	1.3%	1.4%	
2,3,4,7,8-PeCDF	0.192	0.768	0.895	--		0.895	0.895	0.5	0.4	0.4	0.3%	0.3%	
1,2,3,7,8-PeCDD	0.319	1.276	49.2	--		49.2	49.2	1	49.2	49.2	36.0%	37.5%	
1,2,3,4,7,8-HxCDF	0.433	1.732	42.1	--		42.1	42.1	0.1	4.2	4.2	3.1%	3.2%	
1,2,3,6,7,8-HxCDF	0.374	1.496	2.67	--		2.67	2.67	0.1	0.3	0.3	0.2%	0.2%	
2,3,4,6,7,8-HxCDF	0.608	2.432	34.2	--		34.2	34.2	0.1	3.4	3.4	2.5%	2.6%	
1,2,3,7,8,9-HxCDF	0.903	3.612	8.67	--		8.67	8.67	0.1	0.9	0.9	0.6%	0.7%	
1,2,3,4,7,8-HxCDD	0.126	0.504	38.6	--		38.6	38.6	0.1	3.9	3.9	2.8%	2.9%	
1,2,3,6,7,8-HxCDD	0.105	0.42	3.56	--		3.56	3.56	0.1	0.4	0.4	0.3%	0.3%	
1,2,3,7,8,9-HxCDD	0.106	0.424	55	J		55	27.5	0.1	5.5	2.8	4.0%	2.1%	
1,2,3,4,6,7,8-HpCDF	46.2	184.8		D	<5x*B	11.55		0.01	0.1		0.1%	0.0%	
1,2,3,4,7,8,9-HpCDF	0.205	0.82	27.5	--		27.5	27.5	0.01	0.3	0.3	0.2%	0.2%	
1,2,3,4,6,7,8-HpCDD	0.0994	0.3976	45.3	--		45.3	45.3	0.01	0.5	0.5	0.3%	0.3%	
OCDF	0.185	0.74	181	--		181	181	0.0001	0.0	0.0	0.0%	0.0%	
OCDD	0.16	0.64	346	--		346	346	0.0001	0.0	0.0	0.0%	0.0%	
PCB-77	1.24	4.96	256	J		256	128	0.0001	0.0	0.0	0.0%	0.0%	
PCB-81	1.24	4.96	10.1	J		10.1	5.05	0.0001	0.0	0.0	0.0%	0.0%	
PCB-105	291	1160	10700	SJ		10700	5350	0.0001	1.1	0.5	0.8%	0.4%	
PCB-114	284	1140	635	SJ		635	158.75	0.0005	0.3	0.1	0.2%	0.1%	
PCB-118	247	988	14500	SJE		14500	7250	0.0001	1.5	0.7	1.1%	0.6%	
PCB-123	262	1050		--	<5x*B	131		0.0001	0.0		0.0%	0.0%	
PCB-126	5.69	22.76	67.6	--		67.6	67.6	0.1	6.8	6.8	4.9%	5.2%	
PCB-156	21	84	2960	SJ		2960	1480	0.0005	1.5	0.7	1.1%	0.6%	
PCB-157	22.4	89.6	689	SJ		689	344.5	0.0005	0.3	0.2	0.3%	0.1%	
PCB-167	21	84	1220	SJ		1220	610	0.00001	0.0	0.0	0.0%	0.0%	
PCB-169	8.65	34.6		E		4.325		0.01	0.0		0.0%	0.0%	
PCB-189	7.6	30.4	120	--		120	120	0.0001	0.0	0.0	0.0%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
125.2	122.0	11.5	9.0	136.7	131.0

Sample ID	PC00802	PE Med Std	PEM										
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	0.188	0.752	4.17	NJ		2.085		0.1	0.2		0.2%	0.0%	
2,3,7,8-TCDD	0.105	0.42	34	--		34	34	1	34.0	34.0	39.9%	42.0%	
1,2,3,7,8-PeCDF	0.0712	0.2848	24	--		24	24	0.05	1.2	1.2	1.4%	1.5%	
2,3,4,7,8-PeCDF	0.612	2.448		E		0.306		0.5	0.2		0.2%	0.0%	
1,2,3,7,8-PeCDD	0.062	0.248	28.7	--		28.7	28.7	1	28.7	28.7	33.7%	35.5%	
1,2,3,4,7,8-HxCDF	0.231	0.924	25.5	--		25.5	25.5	0.1	2.6	2.6	3.0%	3.2%	
1,2,3,6,7,8-HxCDF	0.202	0.808	1.55	--		1.55	1.55	0.1	0.2	0.2	0.2%	0.2%	
2,3,4,6,7,8-HxCDF	0.257	1.028	21.2	--		21.2	21.2	0.1	2.1	2.1	2.5%	2.6%	
1,2,3,7,8,9-HxCDF	0.401	1.604	5.24	--		5.24	5.24	0.1	0.5	0.5	0.6%	0.7%	
1,2,3,4,7,8-HxCDD	0.0766	0.3064	24.4	--		24.4	24.4	0.1	2.4	2.4	2.9%	3.0%	
1,2,3,6,7,8-HxCDD	0.0697	0.2788	1.86	--		1.86	1.86	0.1	0.2	0.2	0.2%	0.2%	
1,2,3,7,8,9-HxCDD	0.0691	0.2764	39.6	--		39.6	39.6	0.1	4.0	4.0	4.7%	4.9%	
1,2,3,4,6,7,8-HpCDF	0.194	0.776	30	--		30	30	0.01	0.3	0.3	0.4%	0.4%	
1,2,3,4,7,8,9-HpCDF	0.413	1.652	19.4	--		19.4	19.4	0.01	0.2	0.2	0.2%	0.2%	
1,2,3,4,6,7,8-HpCDD	0.704	2.816	28.4	--		28.4	28.4	0.01	0.3	0.3	0.3%	0.4%	
OCDF	0.0813	0.3252	98.9	--		98.9	98.9	0.0001	0.0	0.0	0.0%	0.0%	
OCDD	0.0982	0.3928	227	--		227	227	0.0001	0.0	0.0	0.0%	0.0%	
PCB-77	8.78	35.12	164	--		164	164	0.0001	0.0	0.0	0.0%	0.0%	
PCB-81	7.72	30.88	4.6	J		3.86		0.0001	0.0		0.0%	0.0%	
PCB-105	18.4	73.6	8350	CJ		8350	4175	0.0001	0.8	0.4	1.0%	0.5%	
PCB-114	18.1	72.4	510	CJ		510	255	0.0005	0.3	0.1	0.3%	0.2%	
PCB-118	15.2	60.8	14000	SJ		14000	7000	0.0001	1.4	0.7	1.6%	0.9%	
PCB-123	16.7	66.8	294	--		294	294	0.0001	0.0	0.0	0.0%	0.0%	
PCB-126	19.9	79.6	44	--		44	22	0.1	4.4	2.2	5.2%	2.7%	
PCB-156	1.03	4.12	2020	CJ		2020	1010	0.0005	1.0	0.5	1.2%	0.6%	
PCB-157	1.07	4.28	460	--		460	460	0.0005	0.2	0.2	0.3%	0.3%	
PCB-167	0.943	3.772	773	CJ		773	386.5	0.00001	0.0	0.0	0.0%	0.0%	
PCB-169	5.44	21.76		E		2.72		0.01	0.0		0.0%	0.0%	
PCB-189	0.978	3.912	79.7	I		79.7	79.7	0.0001	0.0	0.0	0.0%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
77.0	76.6	8.2	4.2	85.2	80.9

Sample ID	PC00807	PE Med Std	PEM									
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs	Calculated TEQs (ppt)		Percent of Total TEQ	
	EDL	QL	Conc	Flag	Full	Quant	Human	Full	Quant	Full	Quant	
2,3,7,8-TCDF	0.0199	0.0796	4.04	NJ	2.02		0.1	0.2		0.3%	0.0%	
2,3,7,8-TCDD	0.0103	0.0412	32.5	--	32.5	32.5	1	32.5	32.5	40.0%	40.9%	
1,2,3,7,8-PeCDF	0.0204	0.0816	25	--	25	25	0.05	1.3	1.3	1.5%	1.6%	
2,3,4,7,8-PeCDF	0.0164	0.0656	0.597	--	0.597	0.597	0.5	0.3	0.3	0.4%	0.4%	
1,2,3,7,8-PeCDD	0.00791	0.0316	27.3	--	27.3	27.3	1	27.3	27.3	33.6%	34.4%	
1,2,3,4,7,8-HxCDF	0.0382	0.1528	25.4	--	25.4	25.4	0.1	2.5	2.5	3.1%	3.2%	
1,2,3,6,7,8-HxCDF	0.0334	0.1336	1.09	--	1.09	1.09	0.1	0.1	0.1	0.1%	0.1%	
2,3,4,6,7,8-HxCDF	0.0473	0.1892	20	--	20	20	0.1	2.0	2.0	2.5%	2.5%	
1,2,3,7,8,9-HxCDF	0.0707	0.2828	5.19	--	5.19	5.19	0.1	0.5	0.5	0.6%	0.7%	
1,2,3,4,7,8-HxCDD	0.0205	0.082	23.3	--	23.3	23.3	0.1	2.3	2.3	2.9%	2.9%	
1,2,3,6,7,8-HxCDD	0.0185	0.074	1.89	--	1.89	1.89	0.1	0.2	0.2	0.2%	0.2%	
1,2,3,7,8,9-HxCDD	0.02	0.08	33.8	--	33.8	33.8	0.1	3.4	3.4	4.2%	4.3%	
1,2,3,4,6,7,8-HpCDF	0.126	0.504	31.7	--	31.7	31.7	0.01	0.3	0.3	0.4%	0.4%	
1,2,3,4,7,8,9-HpCDF	0.225	0.9	18	--	18	18	0.01	0.2	0.2	0.2%	0.2%	
1,2,3,4,6,7,8-HpCDD	0.0316	0.1264	27	--	27	27	0.01	0.3	0.3	0.3%	0.3%	
OCDF	0.0904	0.3616	102	--	102	102	0.0001	0.0	0.0	0.0%	0.0%	
OCDD	0.0497	0.1988	199	--	199	199	0.0001	0.0	0.0	0.0%	0.0%	
PCB-77	0.424	1.696	148	--	148	148	0.0001	0.0	0.0	0.0%	0.0%	
PCB-81	0.427	1.708	6.1	--	6.1	6.1	0.0001	0.0	0.0	0.0%	0.0%	
PCB-105	23.1	92.4	7410	CJ	7410	3705	0.0001	0.7	0.4	0.9%	0.5%	
PCB-114	23	92	428	--	428	428	0.0005	0.2	0.2	0.3%	0.3%	
PCB-118	20.9	83.6	14700	SJ	14700	7350	0.0001	1.5	0.7	1.8%	0.9%	
PCB-123	23.5	94	--		11.75		0.0001	0.0		0.0%	0.0%	
PCB-126	6.24	24.96	42.2	--	42.2	42.2	0.1	4.2	4.2	5.2%	5.3%	
PCB-156	0.961	3.844	1940	CJ	1940	970	0.0005	1.0	0.5	1.2%	0.6%	
PCB-157	1.01	4.04	436	--	436	436	0.0005	0.2	0.2	0.3%	0.3%	
PCB-167	0.934	3.736	756	CJ	756	378	0.00001	0.0	0.0	0.0%	0.0%	
PCB-169	5.21	20.84	E		2.605		0.01	0.0		0.0%	0.0%	
PCB-189	0.731	2.924	71.6	--	71.6	71.6	0.0001	0.0	0.0	0.0%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
73.4	73.2	7.9	6.3	81.3	79.5

Sample ID	PC00820	PE Med Std	PEM										
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	0.0678	0.2712	4.59	NJ		2.295		0.1	0.2		0.3%	0.0%	
2,3,7,8-TCDD	0.0267	0.1068	31.5	--		31.5	31.5	1	31.5	31.5	37.1%	40.2%	
1,2,3,7,8-PeCDF	0.0594	0.2376	25.8	--		25.8	25.8	0.05	1.3	1.3	1.5%	1.7%	
2,3,4,7,8-PeCDF	0.0401	0.1604	0.749	--		0.749	0.749	0.5	0.4	0.4	0.4%	0.5%	
1,2,3,7,8-PeCDD	0.061	0.244	29.8	I		29.8	29.8	1	29.8	29.8	35.1%	38.0%	
1,2,3,4,7,8-HxCDF	0.0612	0.2448	25.9	--		25.9	25.9	0.1	2.6	2.6	3.1%	3.3%	
1,2,3,6,7,8-HxCDF	0.0469	0.1876	1.62	--		1.62	1.62	0.1	0.2	0.2	0.2%	0.2%	
2,3,4,6,7,8-HxCDF	0.0622	0.2488	22.3	--		22.3	22.3	0.1	2.2	2.2	2.6%	2.8%	
1,2,3,7,8,9-HxCDF	0.0961	0.3844	5.59	--		5.59	5.59	0.1	0.6	0.6	0.7%	0.7%	
1,2,3,4,7,8-HxCDD	0.0616	0.2464	21.1	--		21.1	21.1	0.1	2.1	2.1	2.5%	2.7%	
1,2,3,6,7,8-HxCDD	0.0447	0.1788	2.05	--		2.05	2.05	0.1	0.2	0.2	0.2%	0.3%	
1,2,3,7,8,9-HxCDD	0.0537	0.2148	43.8	J		43.8	21.9	0.1	4.4	2.2	5.2%	2.8%	
1,2,3,4,6,7,8-HpCDF	0.0311	0.1244	28.8	--		28.8	28.8	0.01	0.3	0.3	0.3%	0.4%	
1,2,3,4,7,8,9-HpCDF	0.0734	0.2936	14.8	--		14.8	14.8	0.01	0.1	0.1	0.2%	0.2%	
1,2,3,4,6,7,8-HpCDD	0.0861	0.3444	24	--		24	24	0.01	0.2	0.2	0.3%	0.3%	
OCDF	0.0403	0.1612	29.5	J		29.5	14.75	0.0001	0.0	0.0	0.0%	0.0%	
OCDD	0.0559	0.2236	178	--		178	178	0.0001	0.0	0.0	0.0%	0.0%	
PCB-77	0.0968	0.3872	166	--		166	166	0.0001	0.0	0.0	0.0%	0.0%	
PCB-81	0.108	0.432	6.77	--		6.77	6.77	0.0001	0.0	0.0	0.0%	0.0%	
PCB-105	16.4	65.6	7990	CJ		7990	3995	0.0001	0.8	0.4	0.9%	0.5%	
PCB-114	17.2	68.8	469	--		469	469	0.0005	0.2	0.2	0.3%	0.3%	
PCB-118	19.5	78	16000	SJ		16000	8000	0.0001	1.6	0.8	1.9%	1.0%	
PCB-123	22.2	88.8	268	--		268	268	0.0001	0.0	0.0	0.0%	0.0%	
PCB-126	1.9	7.6	49.5	J		49.5	24.75	0.1	5.0	2.5	5.8%	3.2%	
PCB-156	2.26	9.04	2000	CJ		2000	1000	0.0005	1.0	0.5	1.2%	0.6%	
PCB-157	2.34	9.36	453	--		453	453	0.0005	0.2	0.2	0.3%	0.3%	
PCB-167	2.3	9.2	751	CJ		751	375.5	0.00001	0.0	0.0	0.0%	0.0%	
PCB-169	6.29	25.16	E			3.145		0.01	0.0		0.0%	0.0%	
PCB-189	0.221	0.884	71.8	--		71.8	71.8	0.0001	0.0	0.0	0.0%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
76.1	73.7	8.9	4.7	85.0	78.4

## APPENDIX A2. Quality Control Results

Sample ID	282-R	Replicate	SP-3	Biased replicate sample; reanalyzed due to high results.									
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag	Full	Quant	Human	Full	Quant	Full	Quant	Full	Quant
2,3,7,8-TCDF	0.289	1.156	9.21	NJ	4.605		0.1	0.5		1.3%	0.0%		
2,3,7,8-TCDD	0.0493	0.1972	0.958	--	0.958	0.958	1	1.0	1.0	2.7%	2.9%		
1,2,3,7,8-PeCDF	0.0999	0.3996	52.1	--	52.1	52.1	0.05	2.6	2.6	7.4%	8.0%		
2,3,4,7,8-PeCDF	0.0717	0.2868	7.08	--	7.08	7.08	0.5	3.5	3.5	10.1%	10.9%		
1,2,3,7,8-PeCDD	0.108	0.432	1.45	--	1.45	1.45	1	1.5	1.5	4.1%	4.5%		
1,2,3,4,7,8-HxCDF	0.167	0.668	89.6	--	89.6	89.6	0.1	9.0	9.0	25.6%	27.5%		
1,2,3,6,7,8-HxCDF	0.132	0.528	48.3	--	48.3	48.3	0.1	4.8	4.8	13.8%	14.8%		
2,3,4,6,7,8-HxCDF	0.169	0.676	23.1	--	23.1	23.1	0.1	2.3	2.3	6.6%	7.1%		
1,2,3,7,8,9-HxCDF	0.22	0.88	19.5	--	19.5	19.5	0.1	2.0	2.0	5.6%	6.0%		
1,2,3,4,7,8-HxCDD	0.127	0.508	1.32	--	1.32	1.32	0.1	0.1	0.1	0.4%	0.4%		
1,2,3,6,7,8-HxCDD	0.083	0.332	2.19	--	2.19	2.19	0.1	0.2	0.2	0.6%	0.7%		
1,2,3,7,8,9-HxCDD	0.105	0.42	1.63	J	1.63	0.815	0.1	0.2	0.1	0.5%	0.3%		
1,2,3,4,6,7,8-HpCDF	0.0545	0.218	217	--	217	217	0.01	2.2	2.2	6.2%	6.7%		
1,2,3,4,7,8,9-HpCDF	0.0741	0.2964	95.9	--	95.9	95.9	0.01	1.0	1.0	2.7%	2.9%		
1,2,3,4,6,7,8-HpCDD	0.123	0.492	27.2	--	27.2	27.2	0.01	0.3	0.3	0.8%	0.8%		
OCDF	0.0475	0.19	1450	SJ	1450	725	0.0001	0.1	0.1	0.4%	0.2%		
OCDD	0.0631	0.2524	191	--	191	191	0.0001	0.0	0.0	0.1%	0.1%		
PCB-77	0.257	1.028	703	CJ	703	351.5	0.0001	0.1	0.0	0.2%	0.1%		
PCB-81	0.241	0.964	27.7	--	27.7	27.7	0.0001	0.0	0.0	0.0%	0.0%		
PCB-105	2.76	11.04	2130	CJ	2130	1065	0.0001	0.2	0.1	0.6%	0.3%		
PCB-114	2.88	11.52	118	J	118	59	0.0005	0.1	0.0	0.2%	0.1%		
PCB-118	3.08	12.32	3070	CJ	3070	1535	0.0001	0.3	0.2	0.9%	0.5%		
PCB-123	3.5	14	115	J	115	57.5	0.0001	0.0	0.0	0.0%	0.0%		
PCB-126	0.761	3.044	31.3	J	31.3	15.65	0.1	3.1	1.6	8.9%	4.8%		
PCB-156	0.727	2.908	133	--	133	133	0.0005	0.1	0.1	0.2%	0.2%		
PCB-157	0.752	3.008	34	--	34	34	0.0005	0.0	0.0	0.0%	0.1%		
PCB-167	0.74	2.96	63.2	--	63.2	63.2	0.00001	0.0	0.0	0.0%	0.0%		
PCB-169	0.304	1.216	2.93	J	2.93	1.465	0.01	0.0	0.0	0.1%	0.0%		
PCB-189	0.626	2.504	30.2	--	30.2	30.2	0.0001	0.0	0.0	0.0%	0.0%		

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
31.1	30.5	3.9	2.0	35.1	32.5

## APPENDIX A2. Quality Control Results

FINAL

Sample ID	347-R	Replicate	SP-7	Biased replicate sample; original sample reanalyzed due to high results.									
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	0.682	2.728	20.2	NJ		10.1		0.1	1.0		1.0%	0.0%	
2,3,7,8-TCDD	1.23	4.92		E		0.615		1	0.6		0.6%	0.0%	
1,2,3,7,8-PeCDF	0.0821	0.3284	154	--		154	154	0.05	7.7	7.7	7.4%	8.1%	
2,3,4,7,8-PeCDF	0.0646	0.2584	26.7	--		26.7	26.7	0.5	13.4	13.4	12.8%	14.0%	
1,2,3,7,8-PeCDD	0.0578	0.2312	8.05	--		8.05	8.05	1	8.1	8.1	7.7%	8.4%	
1,2,3,4,7,8-HxCDF	0.132	0.528	237	--		237	237	0.1	23.7	23.7	22.7%	24.8%	
1,2,3,6,7,8-HxCDF	0.117	0.468	120	--		120	120	0.1	12.0	12.0	11.5%	12.6%	
2,3,4,6,7,8-HxCDF	0.136	0.544	43.4	--		43.4	43.4	0.1	4.3	4.3	4.2%	4.5%	
1,2,3,7,8,9-HxCDF	0.156	0.624	60.8	--		60.8	60.8	0.1	6.1	6.1	5.8%	6.4%	
1,2,3,4,7,8-HxCDD	0.102	0.408	11.7	--		11.7	11.7	0.1	1.2	1.2	1.1%	1.2%	
1,2,3,6,7,8-HxCDD	0.0942	0.3768	19.2	--		19.2	19.2	0.1	1.9	1.9	1.8%	2.0%	
1,2,3,7,8,9-HxCDD	0.102	0.408	12.2	--		12.2	12.2	0.1	1.2	1.2	1.2%	1.3%	
1,2,3,4,6,7,8-HpCDF	0.263	1.052	638	CJ		638	319	0.01	6.4	3.2	6.1%	3.3%	
1,2,3,4,7,8,9-HpCDF	0.4	1.6	282	--		282	282	0.01	2.8	2.8	2.7%	3.0%	
1,2,3,4,6,7,8-HpCDD	0.311	1.244	533	CJ		533	266.5	0.01	5.3	2.7	5.1%	2.8%	
OCDF	0.0542	0.2168	3260	CJ		3260	1630	0.0001	0.3	0.2	0.3%	0.2%	
OCDD	0.0843	0.3372	4170	CJ		4170	2085	0.0001	0.4	0.2	0.4%	0.2%	
PCB-77	1.67	6.68	217	--		217	217	0.0001	0.0	0.0	0.0%	0.0%	
PCB-81	1.51	6.04	7.96	--		7.96	7.96	0.0001	0.0	0.0	0.0%	0.0%	
PCB-105	2.75	11	3250	CJ		3250	1625	0.0001	0.3	0.2	0.3%	0.2%	
PCB-114	2.74	10.96	167	--		167	167	0.0005	0.1	0.1	0.1%	0.1%	
PCB-118	2.35	9.4	7050	CJ		7050	3525	0.0001	0.7	0.4	0.7%	0.4%	
PCB-123	2.64	10.56		--		1.32		0.0001	0.0		0.0%	0.0%	
PCB-126	5.35	21.4	57.3	--		57.3	57.3	0.1	5.7	5.7	5.5%	6.0%	
PCB-156	3.2	12.8	1310	CJ		1310	655	0.0005	0.7	0.3	0.6%	0.3%	
PCB-157	3.38	13.52	315	--		315	315	0.0005	0.2	0.2	0.2%	0.2%	
PCB-167	3.11	12.44	608	CJ		608	304	0.00001	0.0	0.0	0.0%	0.0%	
PCB-169	0.38	1.52	8.85	--		8.85	8.85	0.01	0.1	0.1	0.1%	0.1%	
PCB-189	4.05	16.2	183	--		183	183	0.0001	0.0	0.0	0.0%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
96.4	88.6	7.8	6.9	104.2	95.5

## APPENDIX A2. Quality Control Results

Sample ID	515-R	Replicate	SP-2	Biased replicate sample; original sample reanalyzed due to high results.									
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	4.15	16.6	9.88	NJ		4.94		0.1	0.5		2.0%	0.0%	
2,3,7,8-TCDD	0.719	2.876		E		0.3595		1	0.4		1.4%	0.0%	
1,2,3,7,8-PeCDF	0.0947	0.3788	43.5	--		43.5	43.5	0.05	2.2	2.2	8.6%	8.9%	
2,3,4,7,8-PeCDF	0.0781	0.3124	6.91	--		6.91	6.91	0.5	3.5	3.5	13.7%	14.2%	
1,2,3,7,8-PeCDD	0.0866	0.3464	1.04	--		1.04	1.04	1	1.0	1.0	4.1%	4.3%	
1,2,3,4,7,8-HxCDF	0.0821	0.3284	68.7	--		68.7	68.7	0.1	6.9	6.9	27.2%	28.3%	
1,2,3,6,7,8-HxCDF	0.0704	0.2816	32.6	--		32.6	32.6	0.1	3.3	3.3	12.9%	13.4%	
2,3,4,6,7,8-HxCDF	0.0859	0.3436	13.3	--		13.3	13.3	0.1	1.3	1.3	5.3%	5.5%	
1,2,3,7,8,9-HxCDF	0.0867	0.3468	14.8	--		14.8	14.8	0.1	1.5	1.5	5.9%	6.1%	
1,2,3,4,7,8-HxCDD	0.0804	0.3216	1.5	--		1.5	1.5	0.1	0.2	0.2	0.6%	0.6%	
1,2,3,6,7,8-HxCDD	0.074	0.296	1.71	--		1.71	1.71	0.1	0.2	0.2	0.7%	0.7%	
1,2,3,7,8,9-HxCDD	0.0799	0.3196	1.32	--		1.32	1.32	0.1	0.1	0.1	0.5%	0.5%	
1,2,3,4,6,7,8-HpCDF	0.0949	0.3796	148	--		148	148	0.01	1.5	1.5	5.9%	6.1%	
1,2,3,4,7,8,9-HpCDF	0.149	0.596	75.2	--		75.2	75.2	0.01	0.8	0.8	3.0%	3.1%	
1,2,3,4,6,7,8-HpCDD	0.137	0.548	26.7	--		26.7	26.7	0.01	0.3	0.3	1.1%	1.1%	
OCDF	0.0446	0.1784	1100	CJ		1100	550	0.0001	0.1	0.1	0.4%	0.2%	
OCDD	0.0752	0.3008	187	--		187	187	0.0001	0.0	0.0	0.1%	0.1%	
PCB-77	1.09	4.36	90.5	--		90.5	90.5	0.0001	0.0	0.0	0.0%	0.0%	
PCB-81	1.21	4.84	11.8	--		11.8	11.8	0.0001	0.0	0.0	0.0%	0.0%	
PCB-105	1.98	7.92	456	--		456	456	0.0001	0.0	0.0	0.2%	0.2%	
PCB-114	68.3	273.2		E	<5x*B	34.15		0.0005	0.0		0.1%	0.0%	
PCB-118	1.63	6.52	813	CJ		813	406.5	0.0001	0.1	0.0	0.3%	0.2%	
PCB-123	1.84	7.36		--		0.92		0.0001	0.0		0.0%	0.0%	
PCB-126	3.19	12.76	14.7	--		14.7	14.7	0.1	1.5	1.5	5.8%	6.0%	
PCB-156	3.2	12.8	126	--		126	126	0.0005	0.1	0.1	0.2%	0.3%	
PCB-157	3.37	13.48	40.6	--		40.6	40.6	0.0005	0.0	0.0	0.1%	0.1%	
PCB-167	3.11	12.44	80.6	--		80.6	80.6	0.00001	0.0	0.0	0.0%	0.0%	
PCB-169	0.214	0.856	2.69	--		2.69	2.69	0.01	0.0	0.0	0.1%	0.1%	
PCB-189	5.19	20.76	24.3	--		24.3	24.3	0.0001	0.0	0.0	0.0%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
23.5	22.6	1.7	1.7	25.3	24.3

## APPENDIX A2. Quality Control Results

FINAL

Sample ID	523-R	Replicate	SP-6	Biased replicate sample; original sample reanalyzed due to high results.									
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	1.43	5.72	4.53	NJ		2.265		0.1	0.2		1.2%	0.0%	
2,3,7,8-TCDD	0.571	2.284		E		0.2855		1	0.3		1.5%	0.0%	
1,2,3,7,8-PeCDF	0.0907	0.3628	20.6	--		20.6	20.6	0.05	1.0	1.0	5.4%	5.7%	
2,3,4,7,8-PeCDF	0.0739	0.2956	4.68	--		4.68	4.68	0.5	2.3	2.3	12.2%	12.9%	
1,2,3,7,8-PeCDD	0.0245	0.098	1.24	--		1.24	1.24	1	1.2	1.2	6.5%	6.9%	
1,2,3,4,7,8-HxCDF	0.0748	0.2992	36.5	--		36.5	36.5	0.1	3.7	3.7	19.0%	20.2%	
1,2,3,6,7,8-HxCDF	0.0646	0.2584	16.8	--		16.8	16.8	0.1	1.7	1.7	8.8%	9.3%	
2,3,4,6,7,8-HxCDF	0.0747	0.2988	8.57	--		8.57	8.57	0.1	0.9	0.9	4.5%	4.7%	
1,2,3,7,8,9-HxCDF	0.0951	0.3804	8.04	--		8.04	8.04	0.1	0.8	0.8	4.2%	4.4%	
1,2,3,4,7,8-HxCDD	0.0758	0.3032	1.68	--		1.68	1.68	0.1	0.2	0.2	0.9%	0.9%	
1,2,3,6,7,8-HxCDD	0.0842	0.3368	2.47	--		2.47	2.47	0.1	0.2	0.2	1.3%	1.4%	
1,2,3,7,8,9-HxCDD	0.0834	0.3336	1.53	--		1.53	1.53	0.1	0.2	0.2	0.8%	0.8%	
1,2,3,4,6,7,8-HpCDF	0.0606	0.2424	88.9	I		88.9	88.9	0.01	0.9	0.9	4.6%	4.9%	
1,2,3,4,7,8,9-HpCDF	0.0913	0.3652	37.6	--		37.6	37.6	0.01	0.4	0.4	2.0%	2.1%	
1,2,3,4,6,7,8-HpCDD	0.124	0.496	54.1	--		54.1	54.1	0.01	0.5	0.5	2.8%	3.0%	
OCDF	0.0236	0.0944	565	--		565	565	0.0001	0.1	0.1	0.3%	0.3%	
OCDD	0.0293	0.1172	439	--		439	439	0.0001	0.0	0.0	0.2%	0.2%	
PCB-77	0.533	2.132	162	--		162	162	0.0001	0.0	0.0	0.1%	0.1%	
PCB-81	0.481	1.924	5.5	--		5.5	5.5	0.0001	0.0	0.0	0.0%	0.0%	
PCB-105	2.81	11.24	2420	CJ		2420	1210	0.0001	0.2	0.1	1.3%	0.7%	
PCB-114	2.79	11.16	196	--		196	196	0.0005	0.1	0.1	0.5%	0.5%	
PCB-118	2.35	9.4	5310	CJ		5310	2655	0.0001	0.5	0.3	2.8%	1.5%	
PCB-123	2.64	10.56		--		1.32		0.0001	0.0		0.0%	0.0%	
PCB-126	4.47	17.88	31.5	--		31.5	31.5	0.1	3.2	3.2	16.4%	17.4%	
PCB-156	1.34	5.36	850	CJ		850	425	0.0005	0.4	0.2	2.2%	1.2%	
PCB-157	1.41	5.64	191	--		191	191	0.0005	0.1	0.1	0.5%	0.5%	
PCB-167	1.3	5.2	342	--		342	342	0.00001	0.0	0.0	0.0%	0.0%	
PCB-169	0.192	0.768	3.34	--		3.34	3.34	0.01	0.0	0.0	0.2%	0.2%	
PCB-189	1.21	4.84	89.7	--		89.7	89.7	0.0001	0.0	0.0	0.0%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
14.6	14.1	4.6	4.0	19.2	18.1

## APPENDIX A2. Quality Control Results

FINAL

Sample ID	555-R	Replicate	SP-8	Biased replicate sample; original sample reanalyzed due to high results.									
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	1.55	6.2	6.16	NJ		3.08		0.1	0.3		1.0%	0.0%	
2,3,7,8-TCDD	0.481	1.924		E		0.2405		1	0.2		0.8%	0.0%	
1,2,3,7,8-PeCDF	0.0613	0.2452	48.8	--		48.8	48.8	0.05	2.4	2.4	7.9%	8.4%	
2,3,4,7,8-PeCDF	0.0465	0.186	7.89	--		7.89	7.89	0.5	3.9	3.9	12.8%	13.5%	
1,2,3,7,8-PeCDD	1.55	6.2		E		0.775		1	0.8		2.5%	0.0%	
1,2,3,4,7,8-HxCDF	0.0884	0.3536	84.2	--		84.2	84.2	0.1	8.4	8.4	27.2%	28.8%	
1,2,3,6,7,8-HxCDF	0.0764	0.3056	39.3	--		39.3	39.3	0.1	3.9	3.9	12.7%	13.5%	
2,3,4,6,7,8-HxCDF	0.106	0.424	18.1	--		18.1	18.1	0.1	1.8	1.8	5.9%	6.2%	
1,2,3,7,8,9-HxCDF	0.105	0.42	18.1	--		18.1	18.1	0.1	1.8	1.8	5.9%	6.2%	
1,2,3,4,7,8-HxCDD	0.11	0.44	2.2	--		2.2	2.2	0.1	0.2	0.2	0.7%	0.8%	
1,2,3,6,7,8-HxCDD	0.105	0.42	4.14	--		4.14	4.14	0.1	0.4	0.4	1.3%	1.4%	
1,2,3,7,8,9-HxCDD	3.45	13.8		E		1.725		0.1	0.2		0.6%	0.0%	
1,2,3,4,6,7,8-HpCDF	0.161	0.644	207	--		207	207	0.01	2.1	2.1	6.7%	7.1%	
1,2,3,4,7,8,9-HpCDF	0.244	0.976	93.8	--		93.8	93.8	0.01	0.9	0.9	3.0%	3.2%	
1,2,3,4,6,7,8-HpCDD	0.318	1.272	76	--		76	76	0.01	0.8	0.8	2.5%	2.6%	
OCDF	0.0389	0.1556	1400	CJ		1400	700	0.0001	0.1	0.1	0.5%	0.2%	
OCDD	0.143	0.572	525	--		525	525	0.0001	0.1	0.1	0.2%	0.2%	
PCB-77	0.375	1.5	133	--		133	133	0.0001	0.0	0.0	0.0%	0.0%	
PCB-81	0.36	1.44	6.28	--		6.28	6.28	0.0001	0.0	0.0	0.0%	0.0%	
PCB-105	1.28	5.12	995	CJ		995	497.5	0.0001	0.1	0.0	0.3%	0.2%	
PCB-114	1.27	5.08	82.6	--		82.6	82.6	0.0005	0.0	0.0	0.1%	0.1%	
PCB-118	1	4	1980	CJ		1980	990	0.0001	0.2	0.1	0.6%	0.3%	
PCB-123	1.13	4.52		--		0.565		0.0001	0.0		0.0%	0.0%	
PCB-126	4.62	18.48	19	--		19	19	0.1	1.9	1.9	6.1%	6.5%	
PCB-156	1.37	5.48	274	--		274	274	0.0005	0.1	0.1	0.4%	0.5%	
PCB-157	1.44	5.76	71	--		71	71	0.0005	0.0	0.0	0.1%	0.1%	
PCB-167	1.33	5.32	131	--		131	131	0.00001	0.0	0.0	0.0%	0.0%	
PCB-169	0.181	0.724	2.71	--		2.71	2.71	0.01	0.0	0.0	0.1%	0.1%	
PCB-189	3.52	14.08	42.3	--		42.3	42.3	0.0001	0.0	0.0	0.0%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
28.4	26.9	2.5	2.3	30.9	29.2

Sample ID	246	Split	SP-8										
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	8	32	5.56	NJ		2		0.1	0.2		0.7%	0.0%	
2,3,7,8-TCDD	0.404	1.616		I		0.202		1	0.2		0.7%	0.0%	
1,2,3,7,8-PeCDF	0.589	2.356	43	--		43	43	0.05	2.2	2.2	7.1%	8.3%	
2,3,4,7,8-PeCDF	0.501	2.004	8.29	--		8.29	8.29	0.5	4.1	4.1	13.7%	15.9%	
1,2,3,7,8-PeCDD	1.61	6.44		EI	<5x*B	0.805		1	0.8		2.7%	0.0%	
1,2,3,4,7,8-HxCDF	7.8	31.2	79.4	--		79.4	79.4	0.1	7.9	7.9	26.2%	30.5%	
1,2,3,6,7,8-HxCDF	6.96	27.84	44.6	--		44.6	44.6	0.1	4.5	4.5	14.7%	17.1%	
2,3,4,6,7,8-HxCDF	9.29	37.16	20.9	--		20.9	10.45	0.1	2.1	1.0	6.9%	4.0%	
1,2,3,7,8,9-HxCDF	13.3	53.2	18.3	--		18.3	9.15	0.1	1.8	0.9	6.0%	3.5%	
1,2,3,4,7,8-HxCDD	0.787	3.148	2.67	--		2.67	1.335	0.1	0.3	0.1	0.9%	0.5%	
1,2,3,6,7,8-HxCDD	0.662	2.648	5.1	--		5.1	5.1	0.1	0.5	0.5	1.7%	2.0%	
1,2,3,7,8,9-HxCDD	0.669	2.676	3.54	J		3.54	1.77	0.1	0.4	0.2	1.2%	0.7%	
1,2,3,4,6,7,8-HpCDF	199	796		D	<5x*B	49.75		0.01	0.5		1.6%	0.0%	
1,2,3,4,7,8,9-HpCDF	0.421	1.684	87.3	--		87.3	87.3	0.01	0.9	0.9	2.9%	3.4%	
1,2,3,4,6,7,8-HpCDD	0.615	2.46	94.2	--		94.2	94.2	0.01	0.9	0.9	3.1%	3.6%	
OCDF	0.151	0.604	1310	--		1310	1310	0.0001	0.1	0.1	0.4%	0.5%	
OCDD	0.209	0.836	498	--		498	498	0.0001	0.0	0.0	0.2%	0.2%	
PCB-77	11.8	47.2	166	J		166	83	0.0001	0.0	0.0	0.1%	0.0%	
PCB-81	0.976	3.904	6.79	J		6.79	3.395	0.0001	0.0	0.0	0.0%	0.0%	
PCB-105	15.9	63.6	1290	CJ		1290	645	0.0001	0.1	0.1	0.4%	0.2%	
PCB-114	15.5	62	72.4	--		72.4	72.4	0.0005	0.0	0.0	0.1%	0.1%	
PCB-118	13.4	53.6	2800	CJ		2800	1400	0.0001	0.3	0.1	0.9%	0.5%	
PCB-123	14.2	56.8		--	<5x*B	7.1		0.0001	0.0		0.0%	0.0%	
PCB-126	1.6	6.4	20.8	--		20.8	20.8	0.1	2.1	2.1	6.9%	8.0%	
PCB-156	3.81	15.24	356	--		356	356	0.0005	0.2	0.2	0.6%	0.7%	
PCB-157	4.05	16.2	87.1	--		87.1	87.1	0.0005	0.0	0.0	0.1%	0.2%	
PCB-167	3.79	15.16	155	--		155	155	0.00001	0.0	0.0	0.0%	0.0%	
PCB-169	1.01	4.04	3.18	--		3.18	1.59	0.01	0.0	0.0	0.1%	0.1%	
PCB-189	2.87	11.48	39.7	--		39.7	39.7	0.0001	0.0	0.0	0.0%	0.0%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
27.4	23.5	2.8	2.6	30.2	26.0

Sample ID	407	Split		P-5									
Analyte	Analytical Limits		Results		<5x in MB found	Adjusted Concentrations*		WHO TEFs Human	Calculated TEQs (ppt)		Percent of Total TEQ		
	EDL	QL	Conc	Flag		Full	Quant		Full	Quant	Full	Quant	
2,3,7,8-TCDF	0.379	1.516	8.33	NJ		4.165		0.1	0.4		0.9%	0.0%	
2,3,7,8-TCDD	0.374	1.496		E		0.187		1	0.2		0.4%	0.0%	
1,2,3,7,8-PeCDF	0.16	0.64	6.66	--		6.66	6.66	0.05	0.3	0.3	0.7%	1.1%	
2,3,4,7,8-PeCDF	0.157	0.628	5.6	--		5.6	5.6	0.5	2.8	2.8	5.8%	9.5%	
1,2,3,7,8-PeCDD	0.114	0.456	2.06	--		2.06	2.06	1	2.1	2.1	4.2%	7.0%	
1,2,3,4,7,8-HxCDF	0.536	2.144	13.8	--		13.8	13.8	0.1	1.4	1.4	2.8%	4.7%	
1,2,3,6,7,8-HxCDF	0.552	2.208	7.96	--		7.96	7.96	0.1	0.8	0.8	1.6%	2.7%	
2,3,4,6,7,8-HxCDF	1.15	4.6	5.63	--		5.63	5.63	0.1	0.6	0.6	1.2%	1.9%	
1,2,3,7,8,9-HxCDF	2.96	11.84		E	<5x*B	1.48		0.1	0.1		0.3%	0.0%	
1,2,3,4,7,8-HxCDD	0.797	3.188	3.29	--		3.29	3.29	0.1	0.3	0.3	0.7%	1.1%	
1,2,3,6,7,8-HxCDD	0.657	2.628	5.33	--		5.33	5.33	0.1	0.5	0.5	1.1%	1.8%	
1,2,3,7,8,9-HxCDD	0.678	2.712	3.75	--		3.75	3.75	0.1	0.4	0.4	0.8%	1.3%	
1,2,3,4,6,7,8-HpCDF	0.511	2.044	52.6	--		52.6	52.6	0.01	0.5	0.5	1.1%	1.8%	
1,2,3,4,7,8,9-HpCDF	1.11	4.44	12.1	--		12.1	12.1	0.01	0.1	0.1	0.2%	0.4%	
1,2,3,4,6,7,8-HpCDD	1.29	5.16	128	--		128	128	0.01	1.3	1.3	2.6%	4.3%	
OCDF	0.114	0.456	175	--		175	175	0.0001	0.0	0.0	0.0%	0.1%	
OCDD	0.167	0.668	720	--		720	720	0.0001	0.1	0.1	0.1%	0.2%	
PCB-77	5.37	21.48	1600	CJ		1600	800	0.0001	0.2	0.1	0.3%	0.3%	
PCB-81	4.93	19.72	32.8	J		32.8	16.4	0.0001	0.0	0.0	0.0%	0.0%	
PCB-105	201	804	13800	CJ		13800	6900	0.0001	1.4	0.7	2.8%	2.3%	
PCB-114	197	788	634	CJ		634	158.5	0.0005	0.3	0.1	0.7%	0.3%	
PCB-118	163	652	17700	SJ		17700	8850	0.0001	1.8	0.9	3.6%	3.0%	
PCB-123	178	712	578	CJ		578	144.5	0.0001	0.1	0.0	0.1%	0.0%	
PCB-126	57.4	229.6	293	CJ		293	146.5	0.1	29.3	14.7	60.3%	49.6%	
PCB-156	9.38	37.52	5340	CJ		5340	2670	0.0005	2.7	1.3	5.5%	4.5%	
PCB-157	9.76	39.04	1330	CJ		1330	665	0.0005	0.7	0.3	1.4%	1.1%	
PCB-167	8.62	34.48	2760	CJ		2760	1380	0.00001	0.0	0.0	0.1%	0.0%	
PCB-169	2.99	11.96	20.8	--		20.8	20.8	0.01	0.2	0.2	0.4%	0.7%	
PCB-189	6.34	25.36	756	CJ		756	378	0.0001	0.1	0.0	0.2%	0.1%	

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

Dioxin/Furan Only		PCBs Only		All Analytes	
Full	Quant	Full	Quant	Full	Quant
11.9	11.2	36.6	18.3	48.6	29.5

## **APPENDIX B**

### **GRAPHICAL DATA PRESENTATIONS**

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#### **APPENDIX B1**

##### **Congener Concentrations and Contributions to TEQ**

#### **APPENDIX B2**

##### **Homologue Concentrations and Contributions to TEQ**

#### **APPENDIX B3**

##### **PCDD and PCDF Concentrations and Contributions to TEQ**

#### **APPENDIX B4**

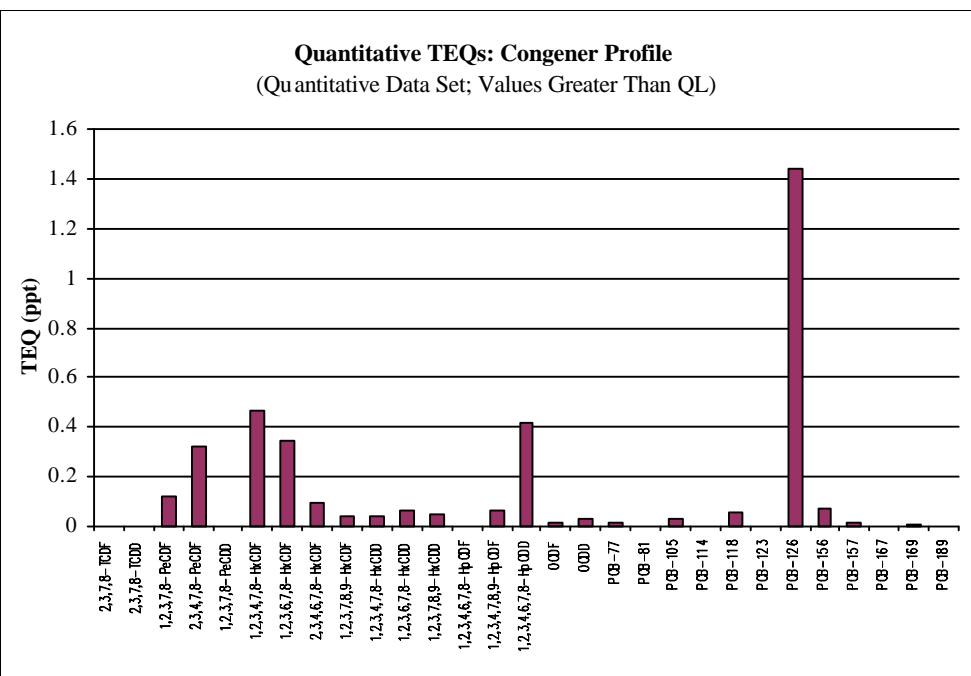
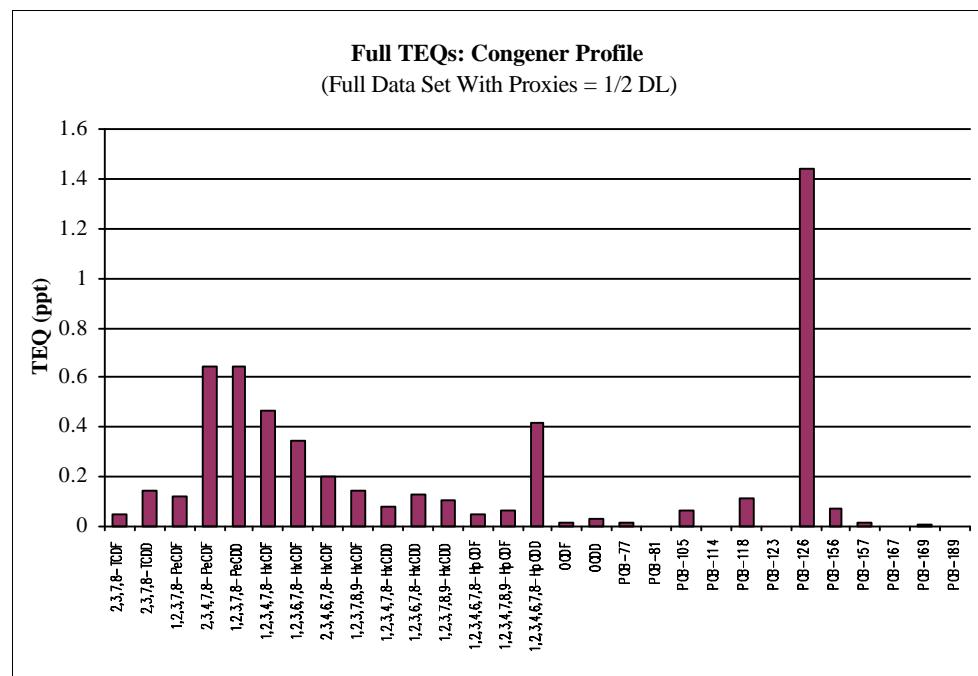
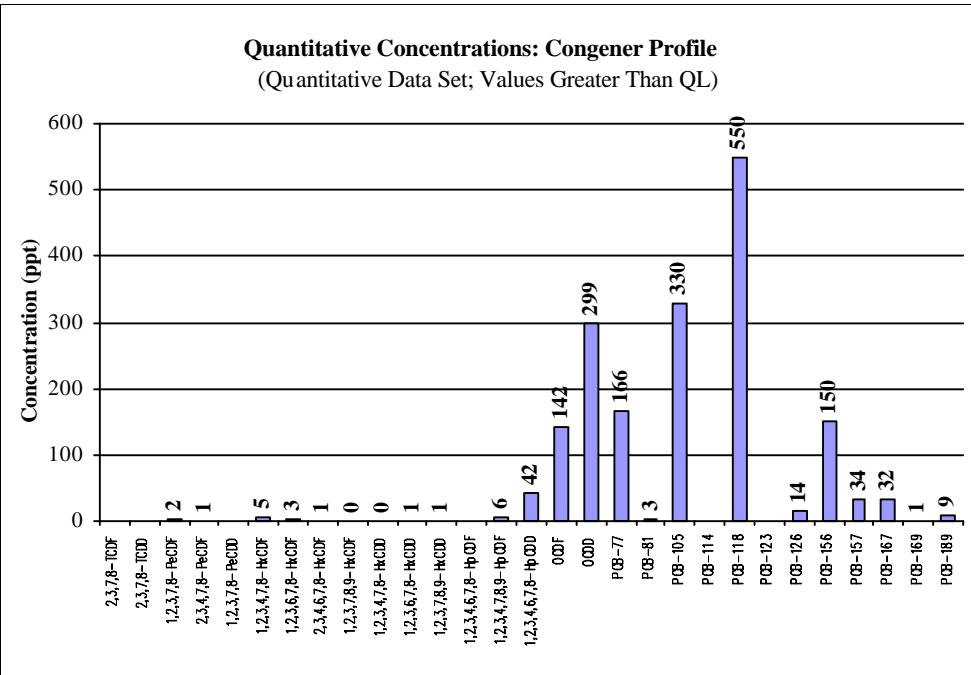
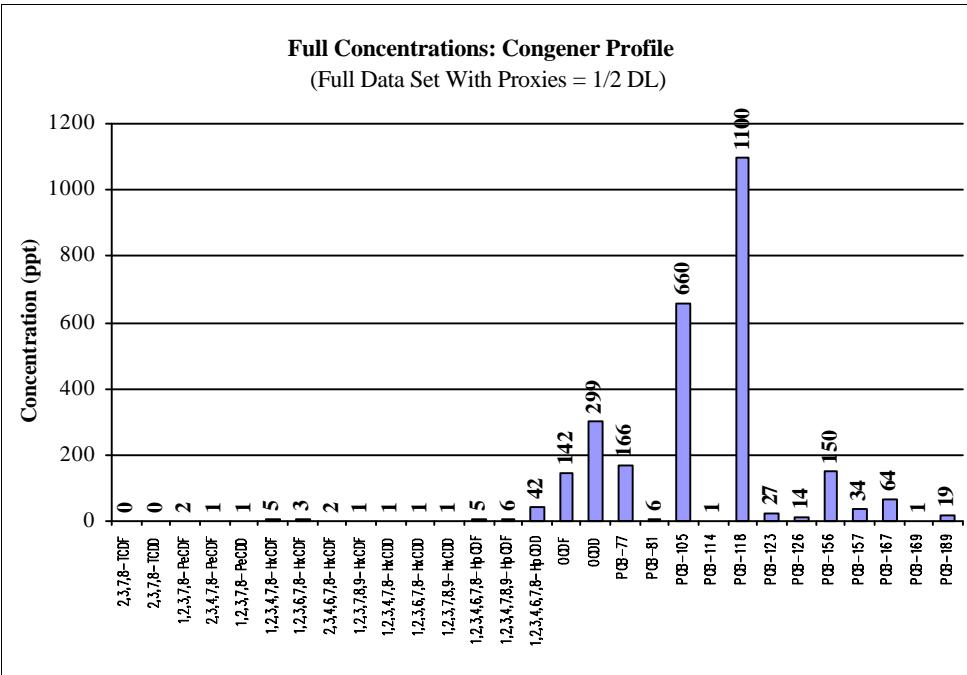
##### **QC Sample Congener Concentrations and Contributions to TEQ**

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These results were used in congener pattern analysis.

Sample 105

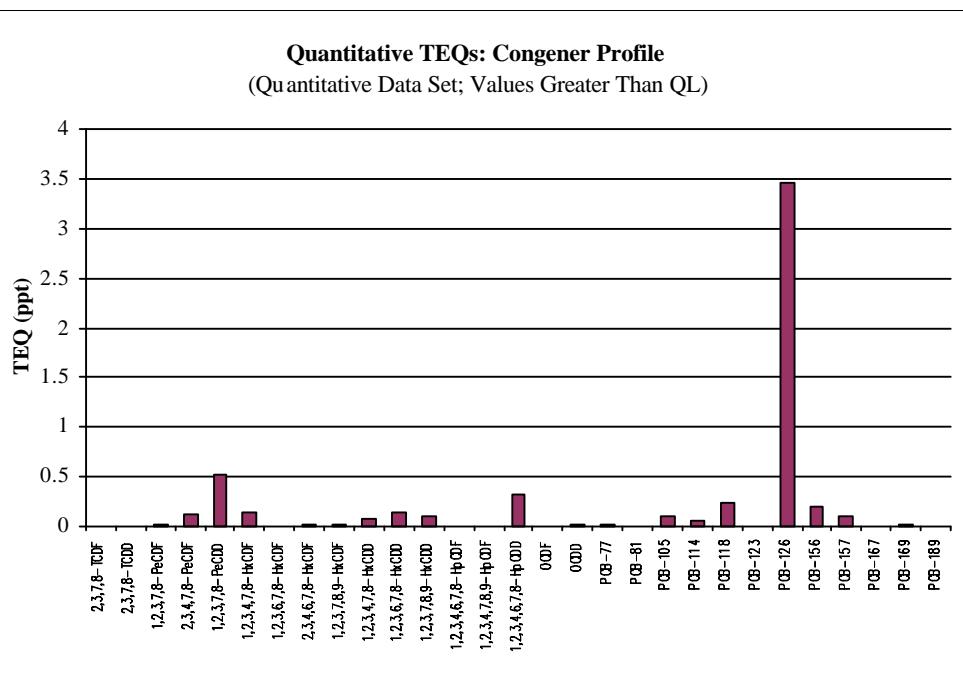
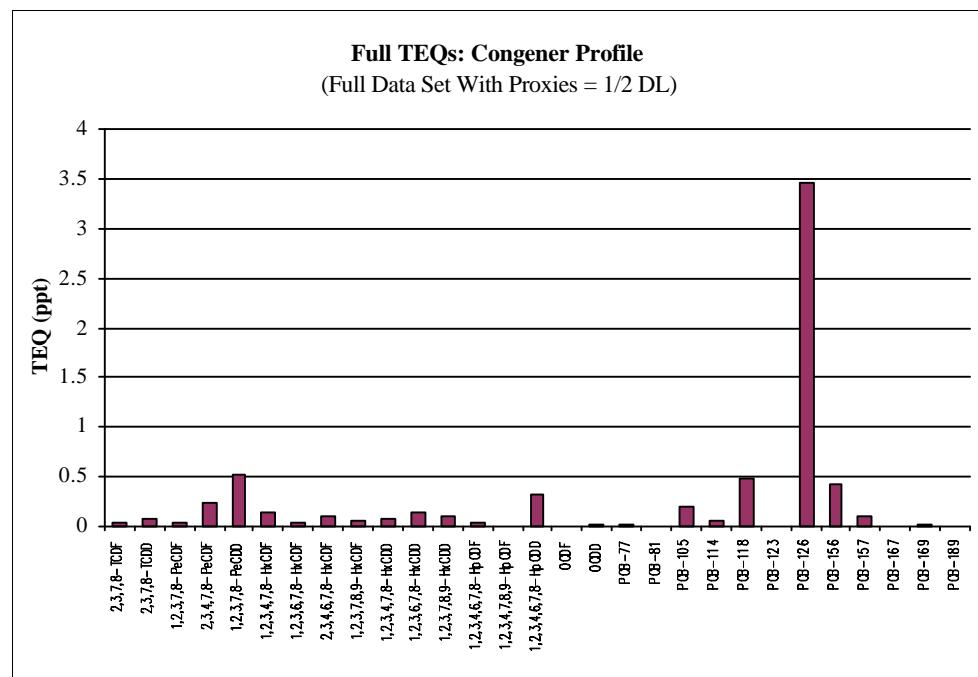
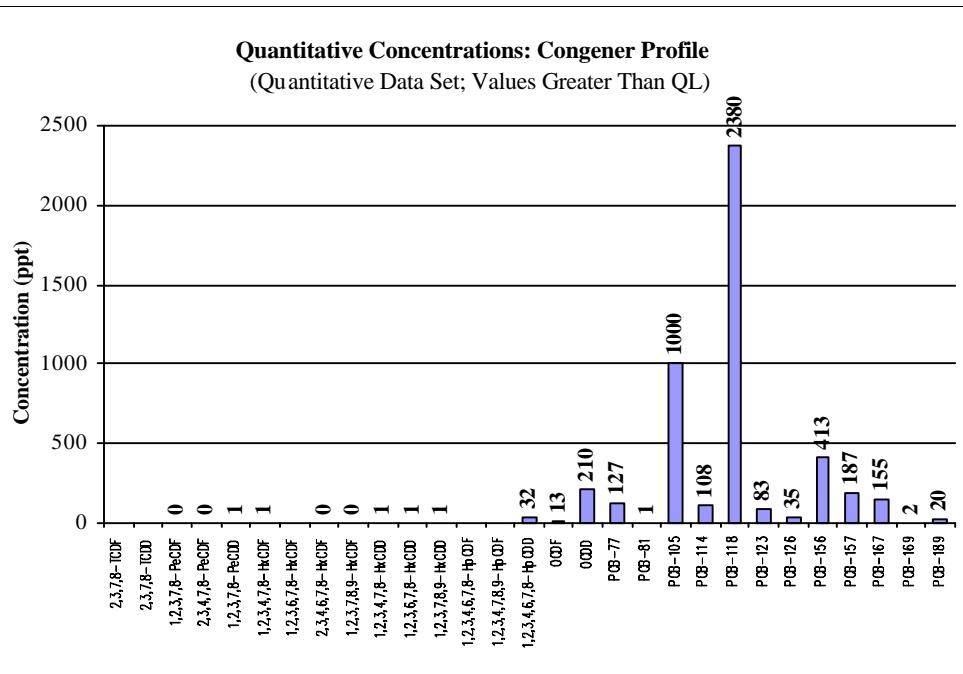
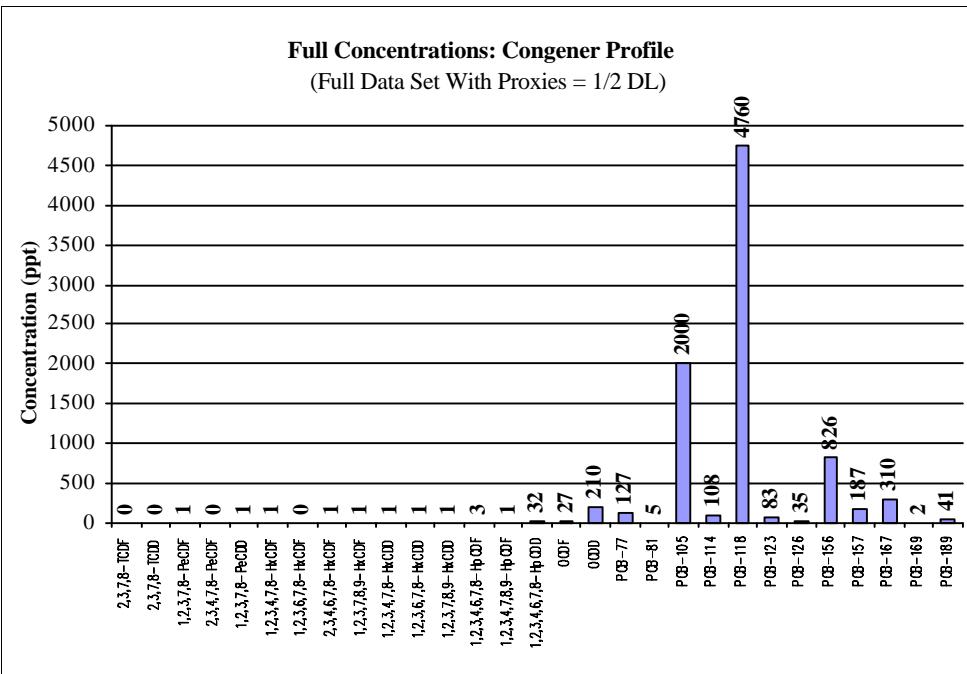
P-1



## Appendix B1. Congener Profiles

These results were used in congener pattern analysis.

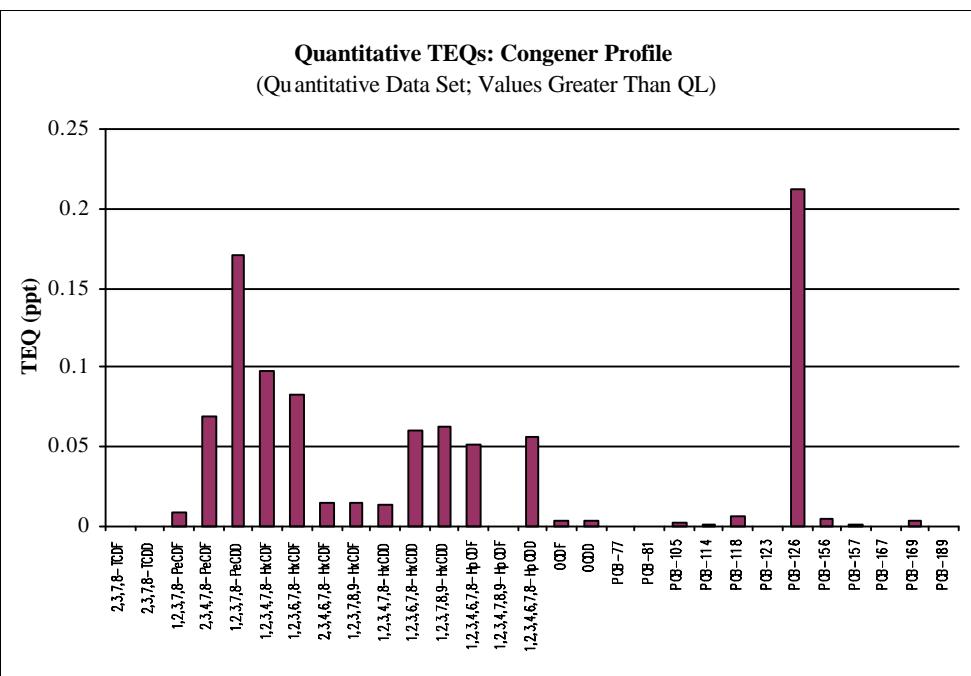
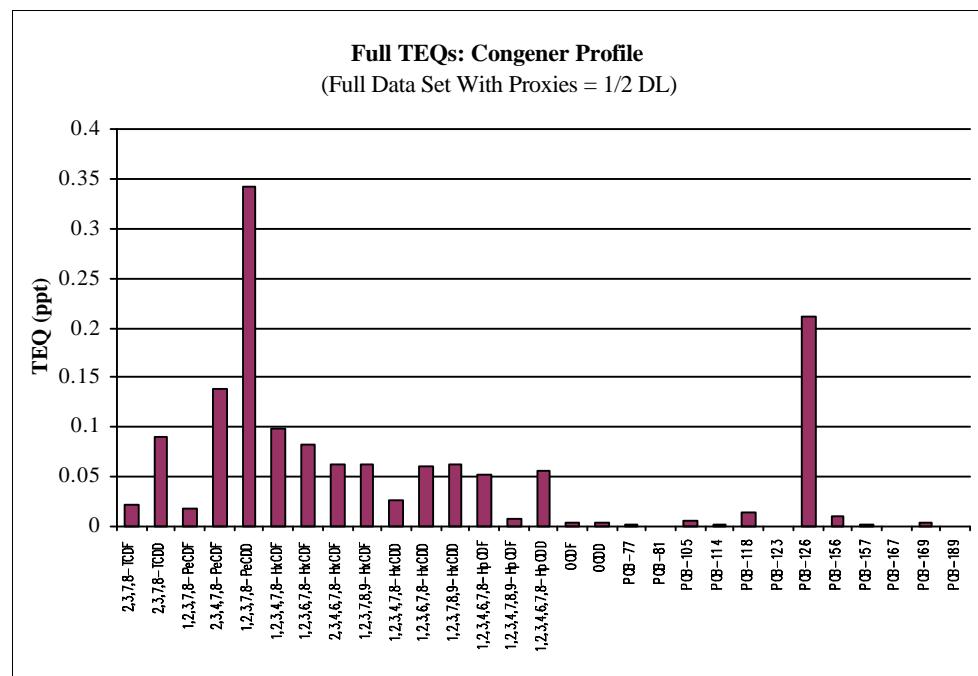
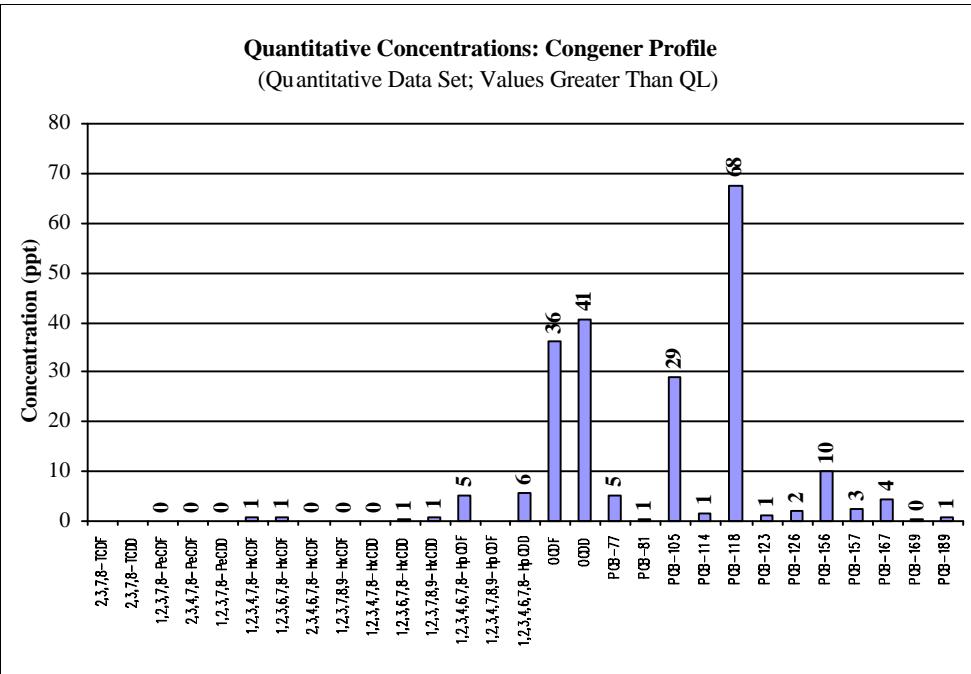
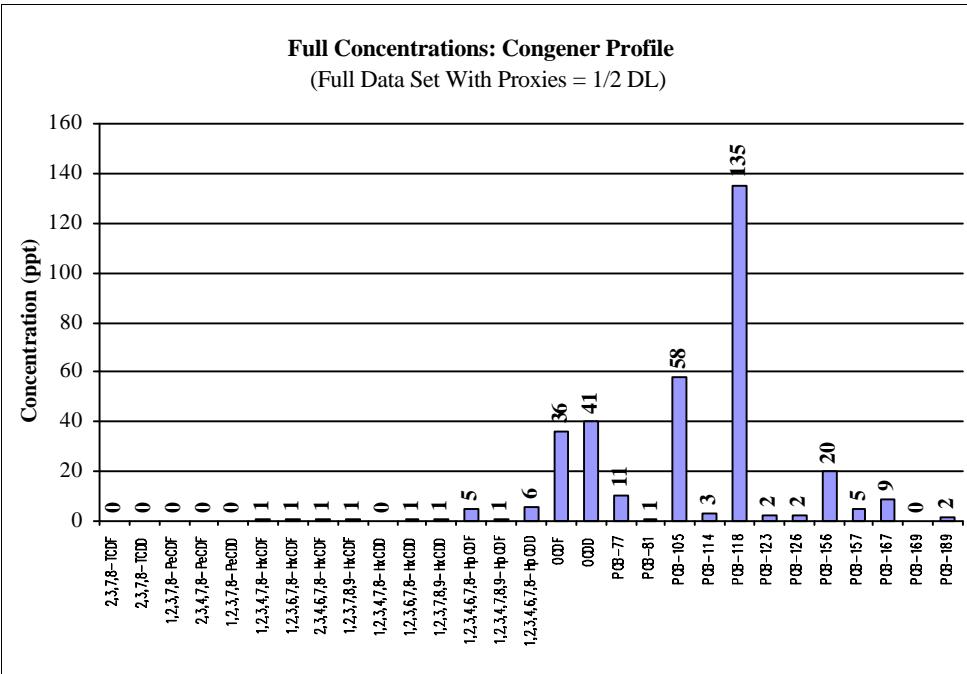
Sample 714



These results were used in congener pattern analysis.

Sample 769

P-2

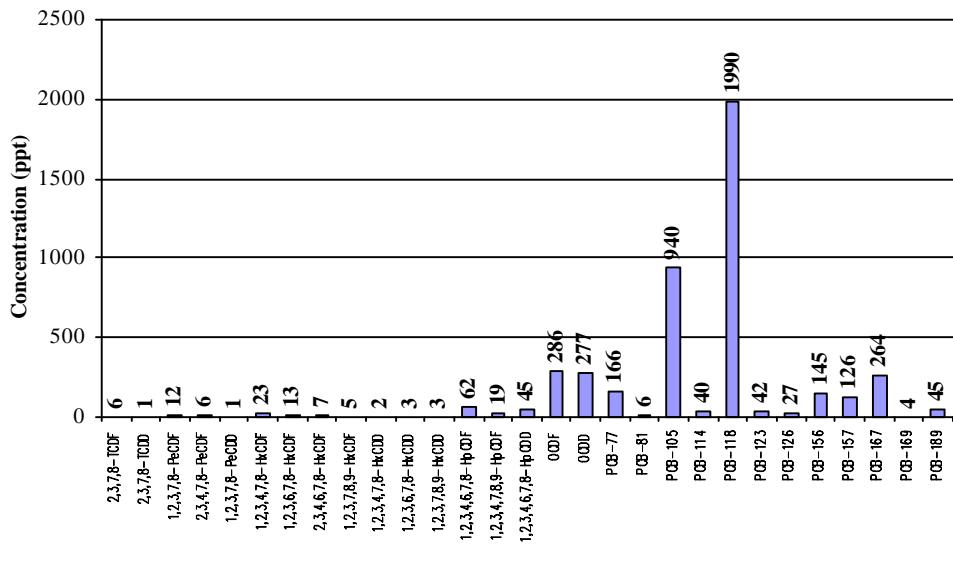


## Appendix B1. Congener Profiles

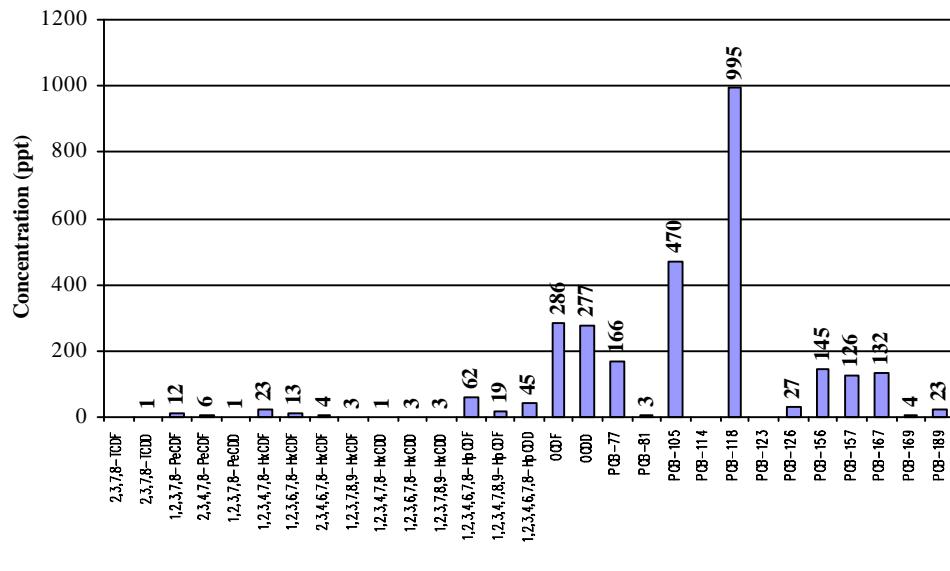
These results were used in congener pattern analysis.

*Sample 819**P-3*

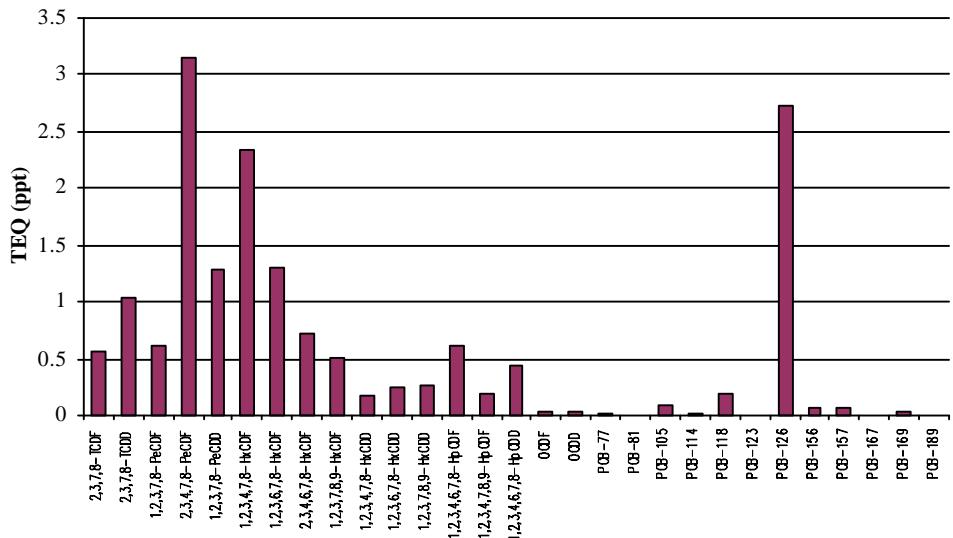
**Full Concentrations: Congener Profile**  
(Full Data Set With Proxies = 1/2 DL)



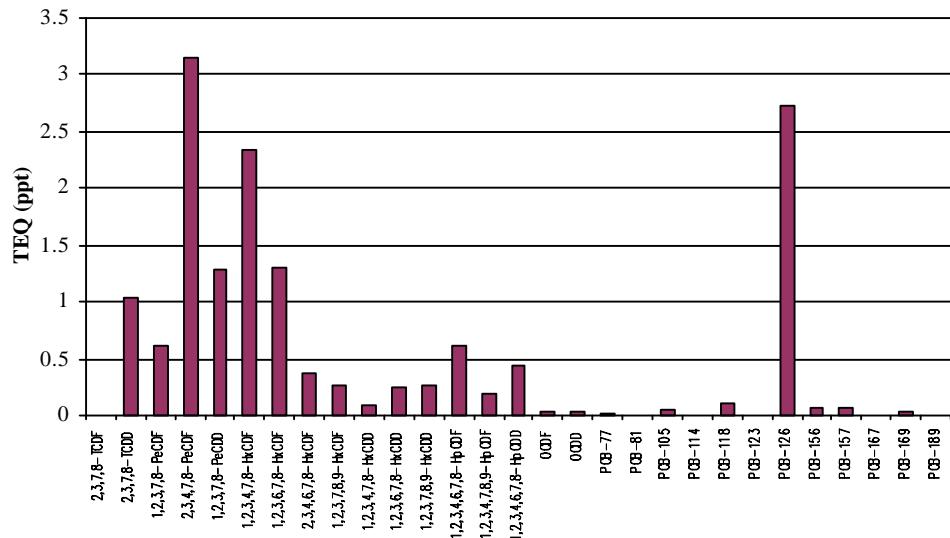
**Quantitative Concentrations: Congener Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Congener Profile**  
(Full Data Set With Proxies = 1/2 DL)



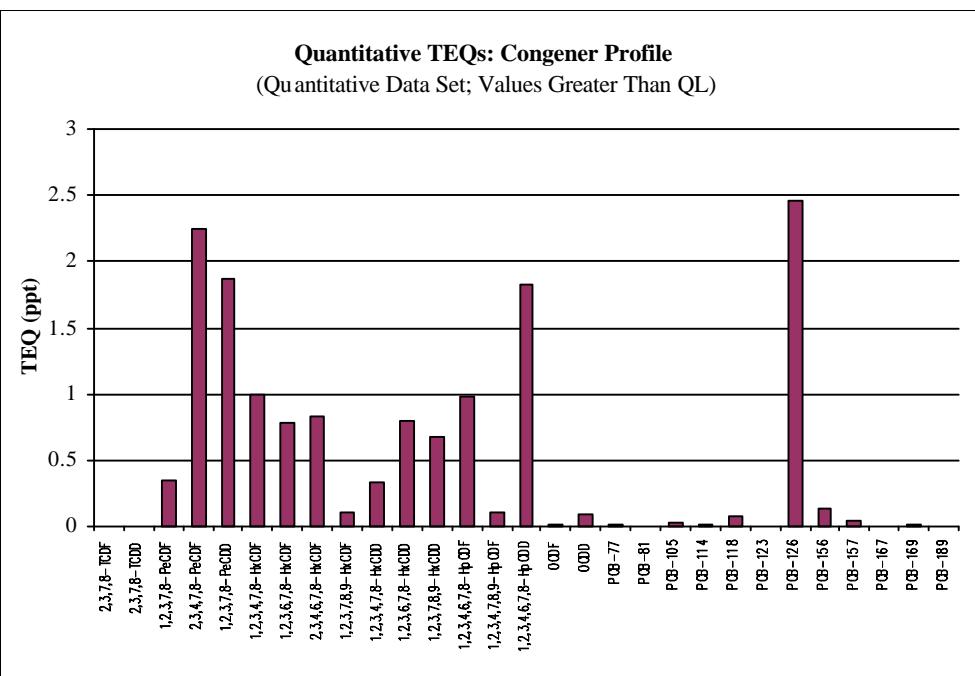
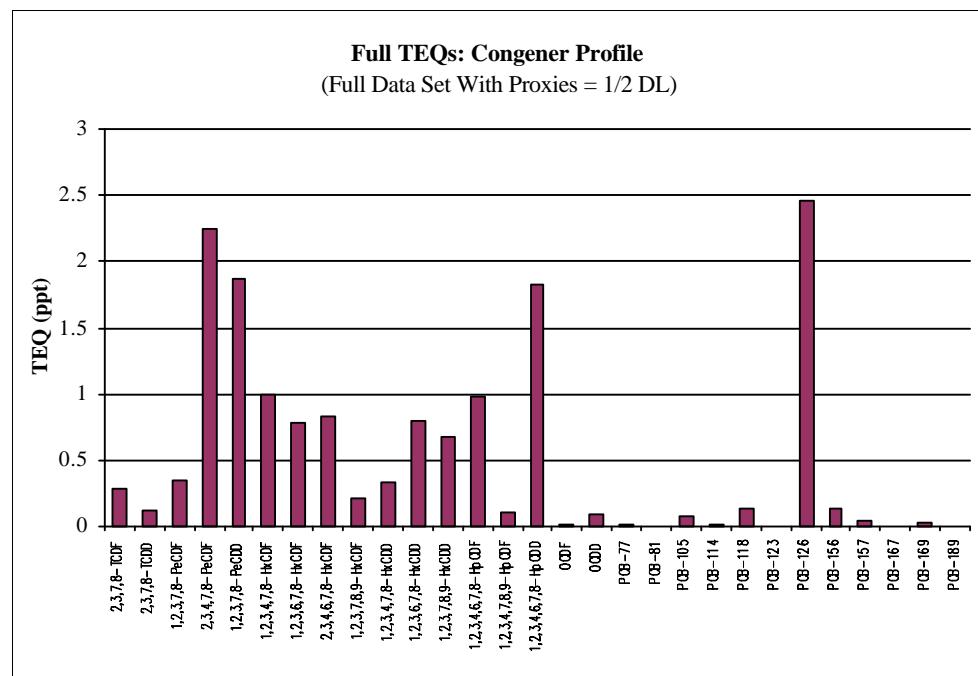
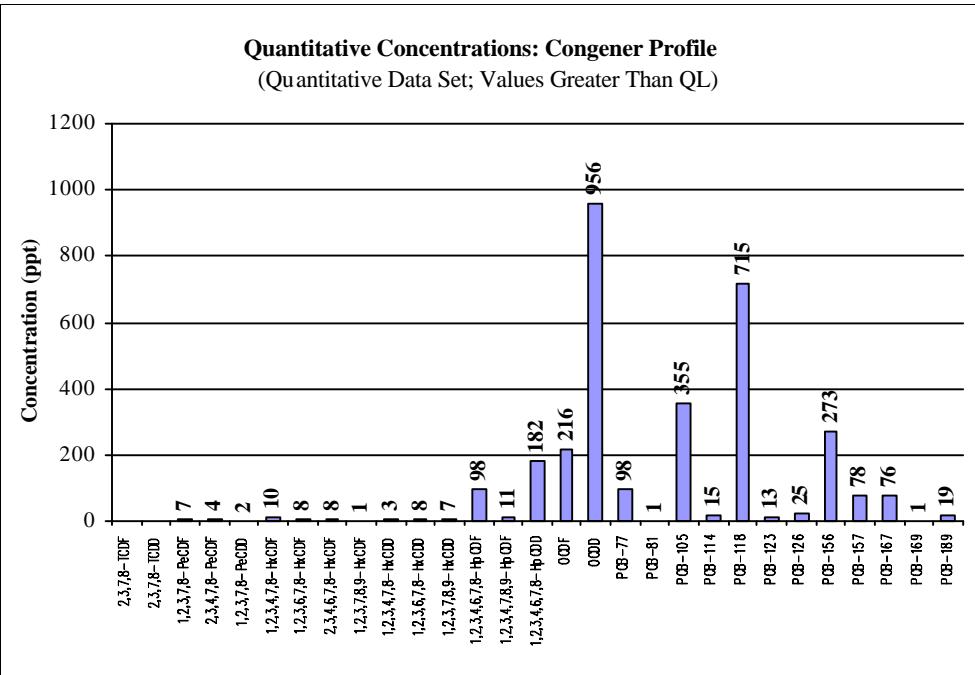
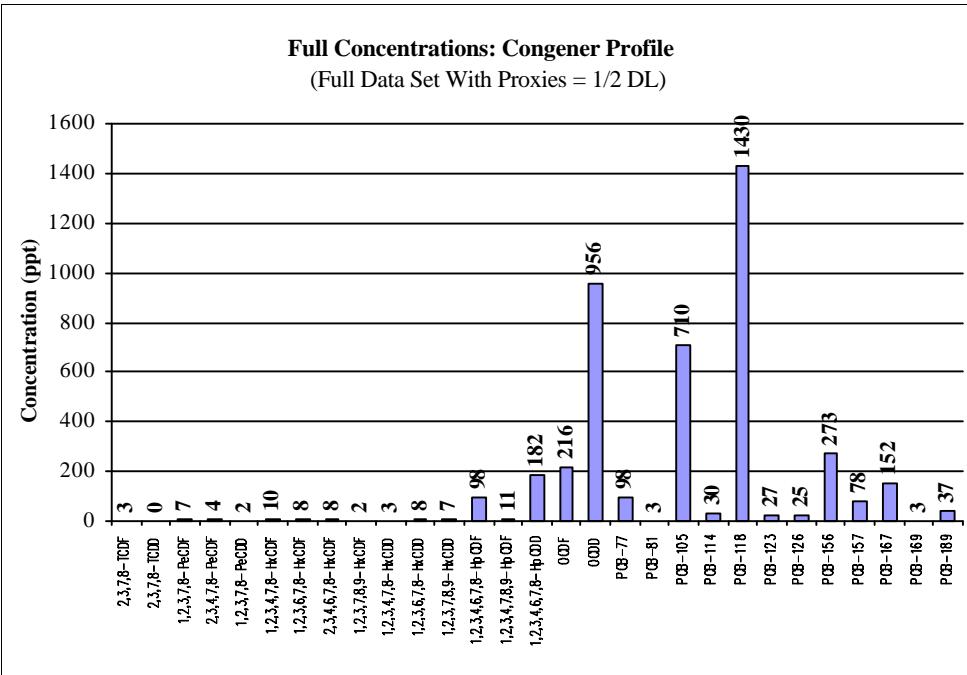
**Quantitative TEQs: Congener Profile**  
(Quantitative Data Set; Values Greater Than QL)



These results were used in congener pattern analysis.

Sample 157

P-4

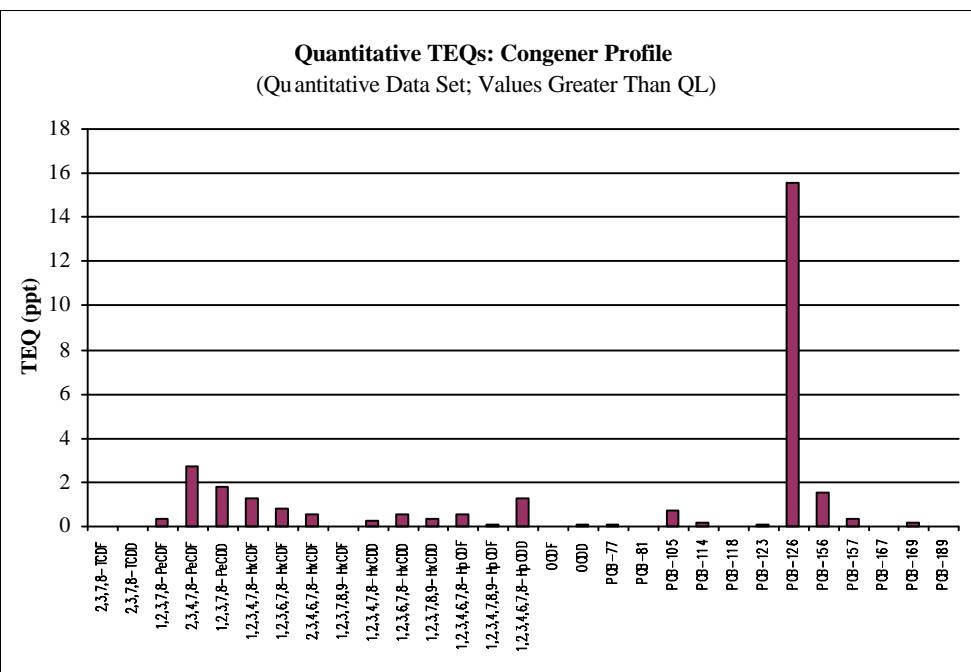
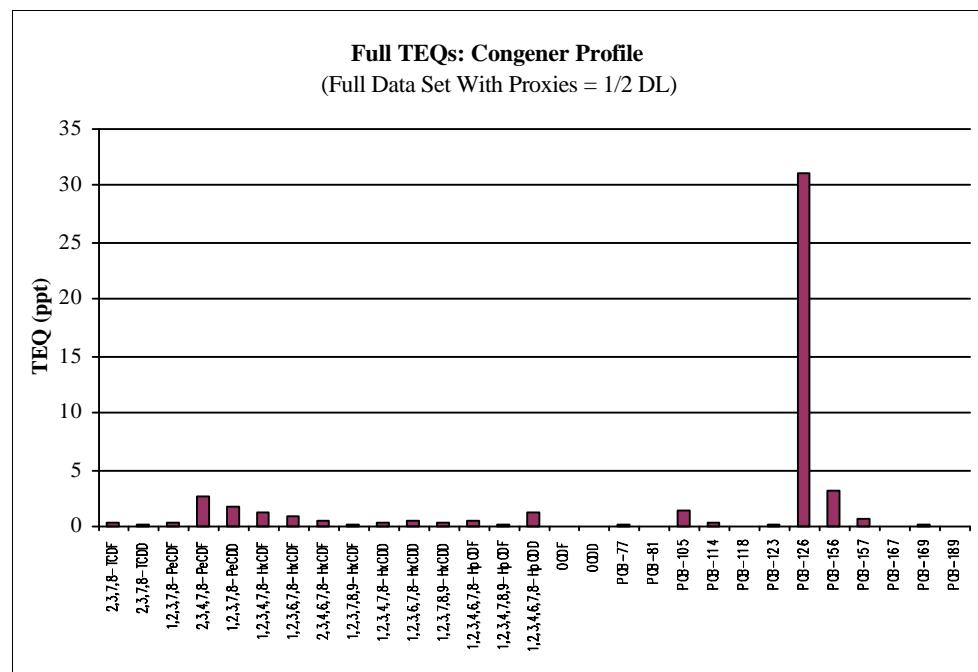
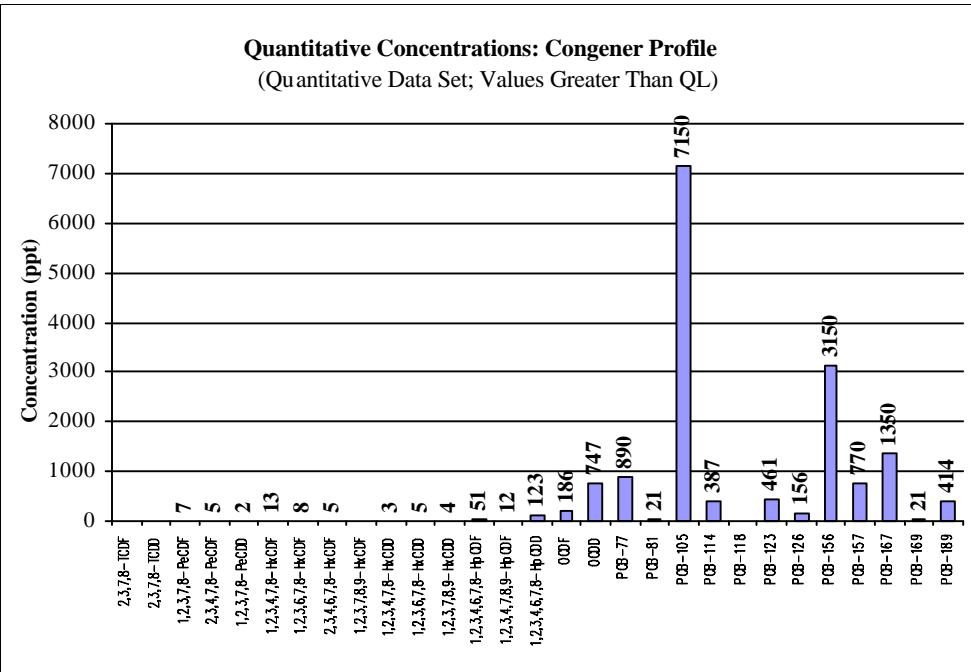
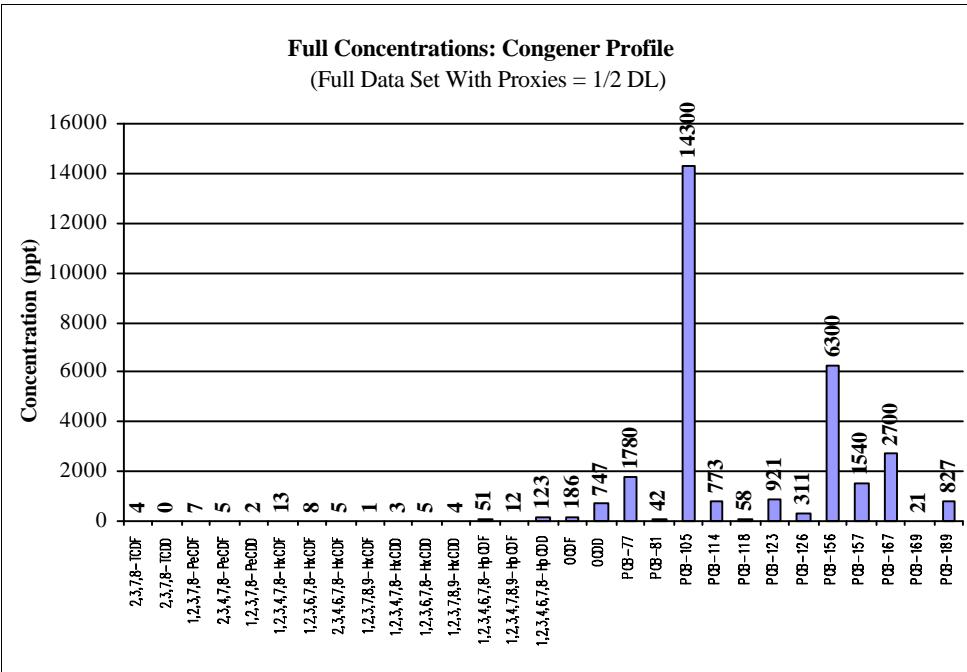


These results were used in congener pattern analysis.

Sample 273

P-5

Replaced 'S' in result column with 10x the QL for PCB-118.



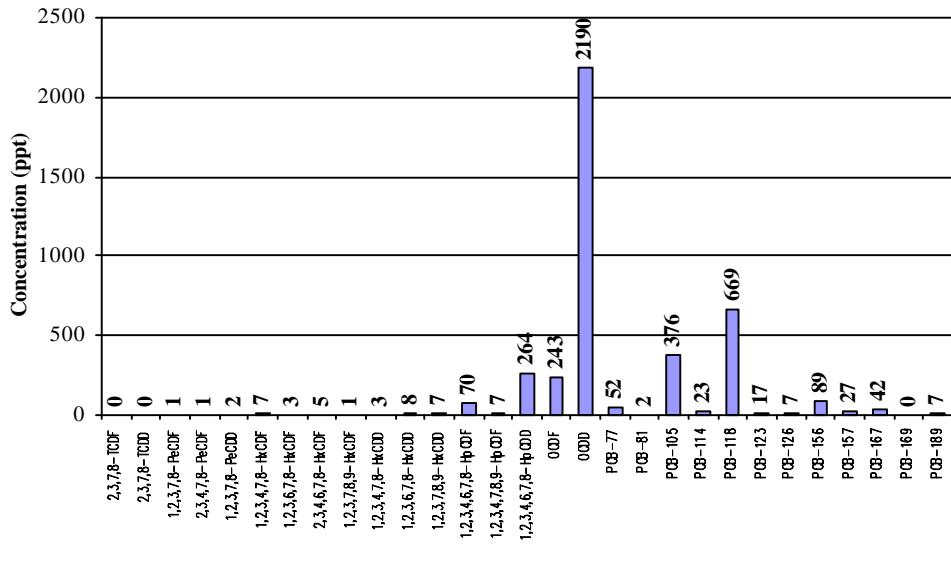
## Appendix B1. Congener Profiles

These results were used in congener pattern analysis.

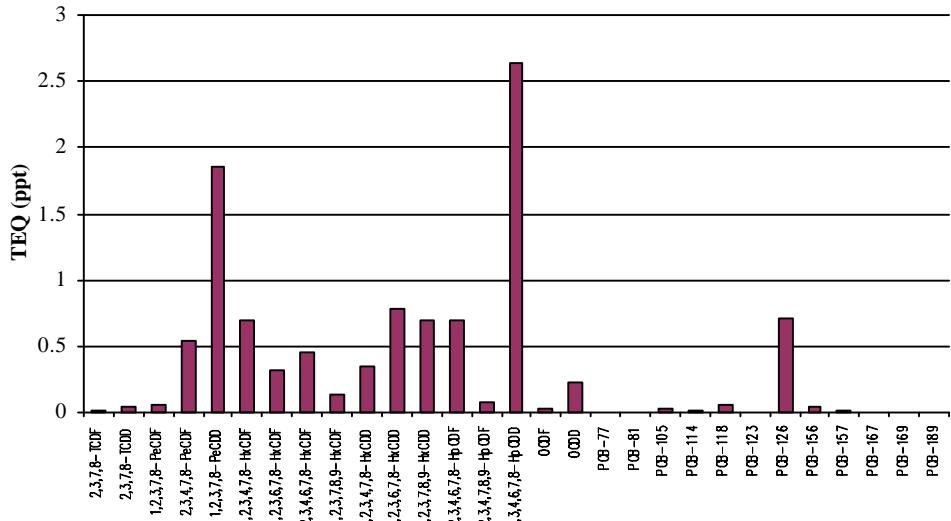
Sample 839

P-6

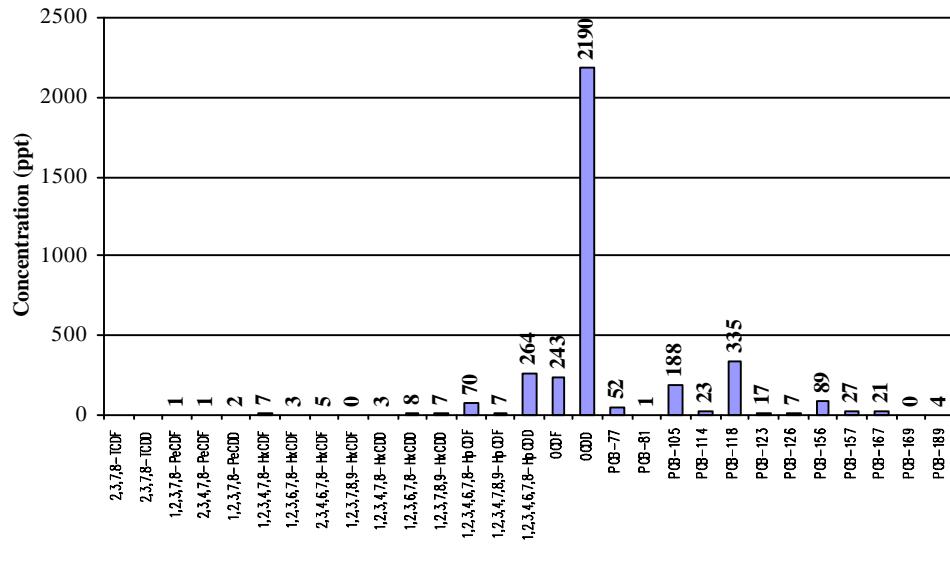
**Full Concentrations: Congener Profile**  
(Full Data Set With Proxies = 1/2 DL)



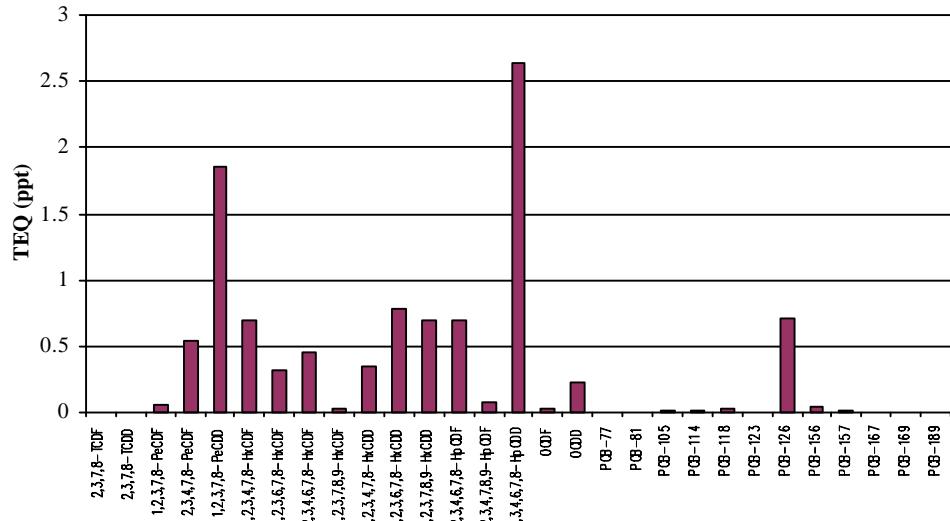
**Full TEQs: Congener Profile**  
(Full Data Set With Proxies = 1/2 DL)



**Quantitative Concentrations: Congener Profile**  
(Quantitative Data Set; Values Greater Than QL)



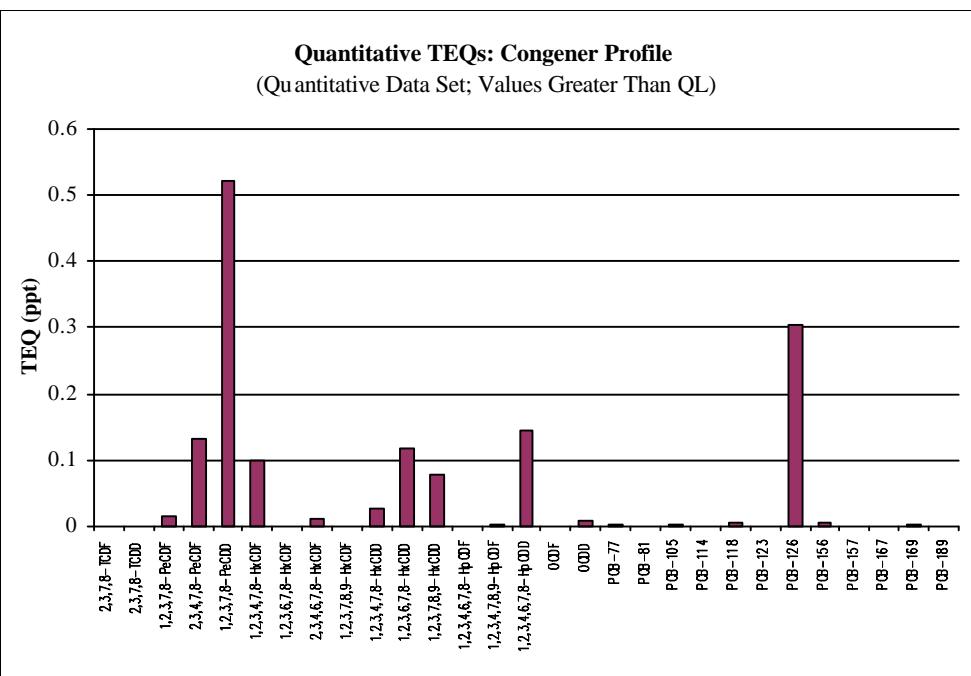
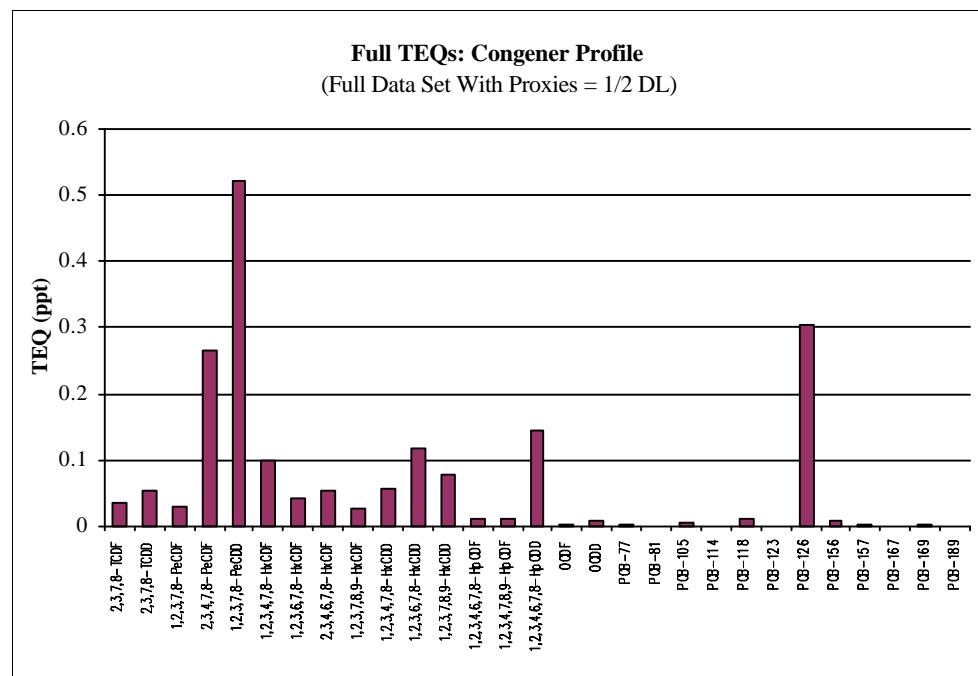
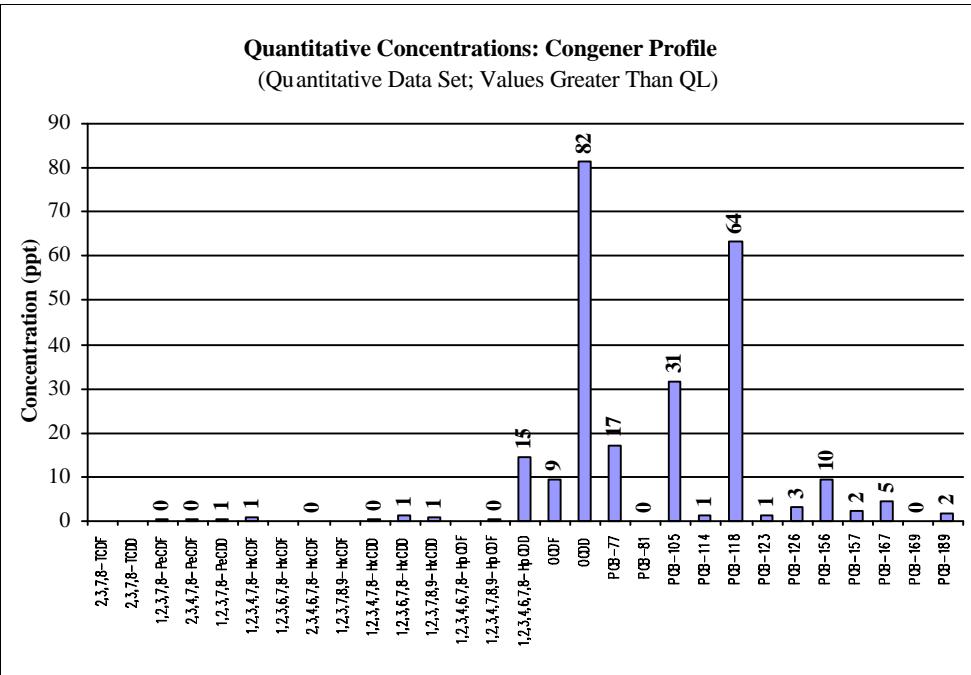
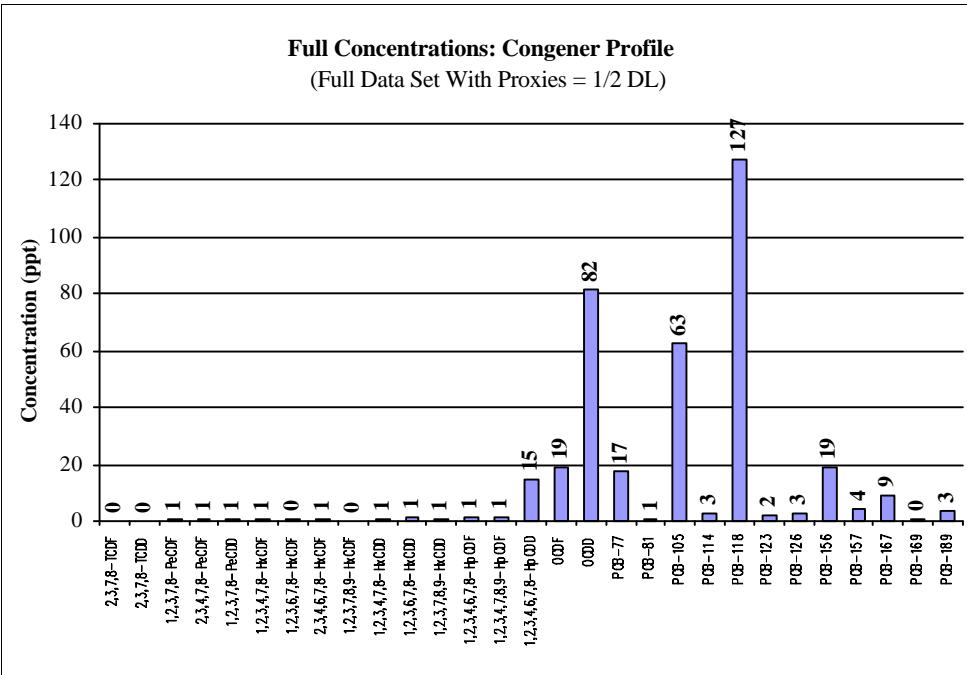
**Quantitative TEQs: Congener Profile**  
(Quantitative Data Set; Values Greater Than QL)



These results were used in congener pattern analysis.

Sample 270

P-7

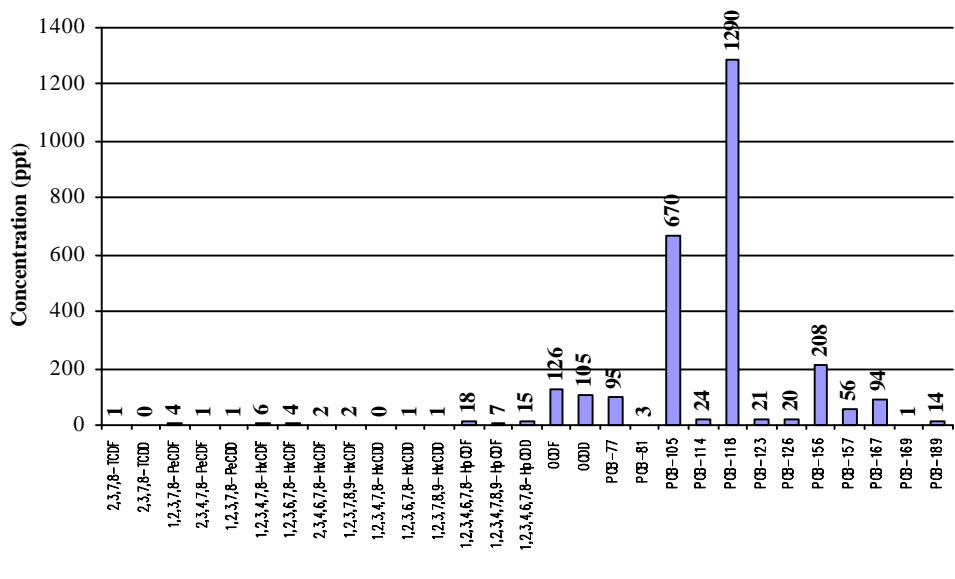


These results were used in congener pattern analysis.

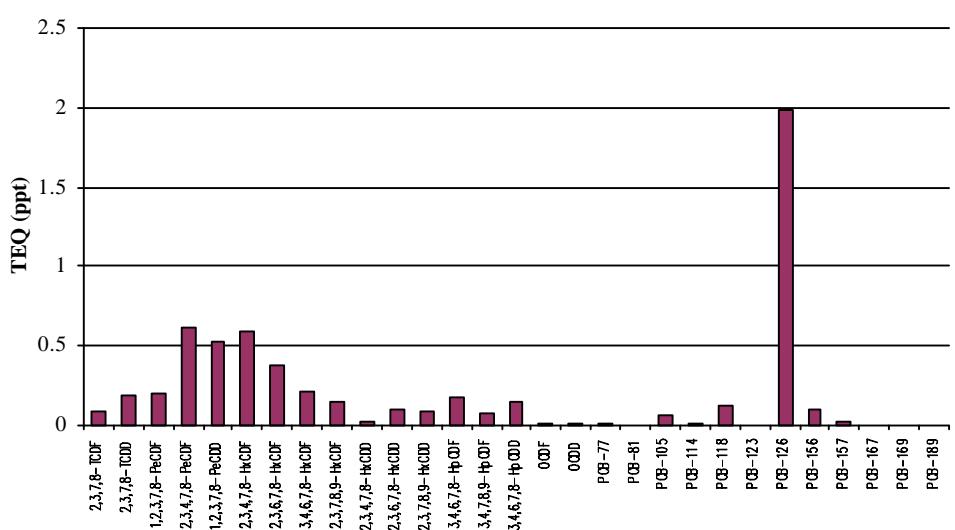
### Sample 237

### P-8

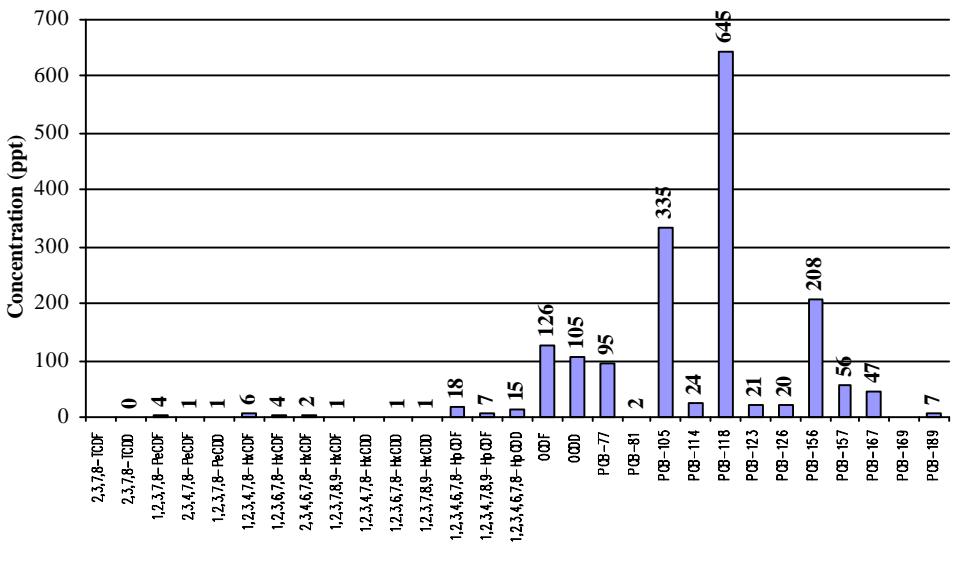
**Full Concentrations: Congener Profile**  
(Full Data Set With Proxies = 1/2 DL)



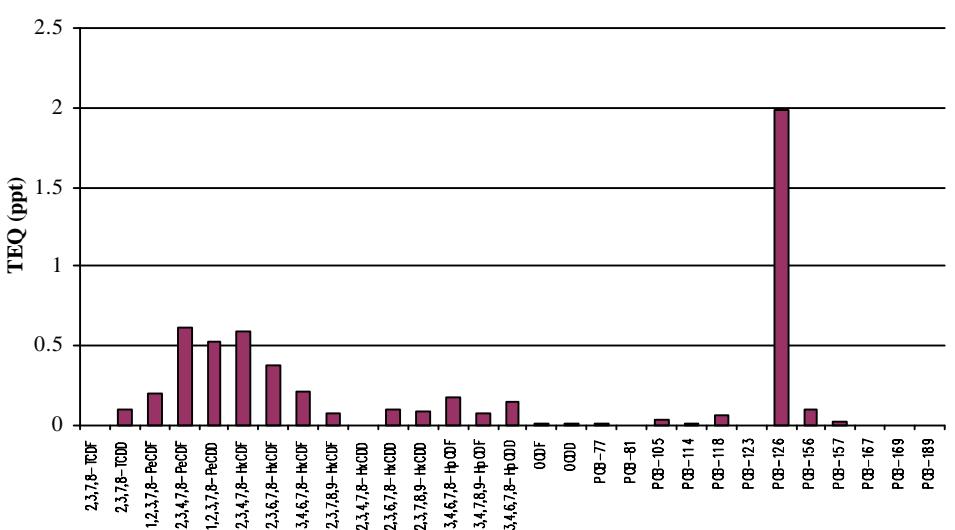
**Full TEQs: Congener Profile**  
(Full Data Set With Proxies = 1/2 DL)



**Quantitative Concentrations: Congener Profile**  
(Quantitative Data Set; Values Greater Than QL)



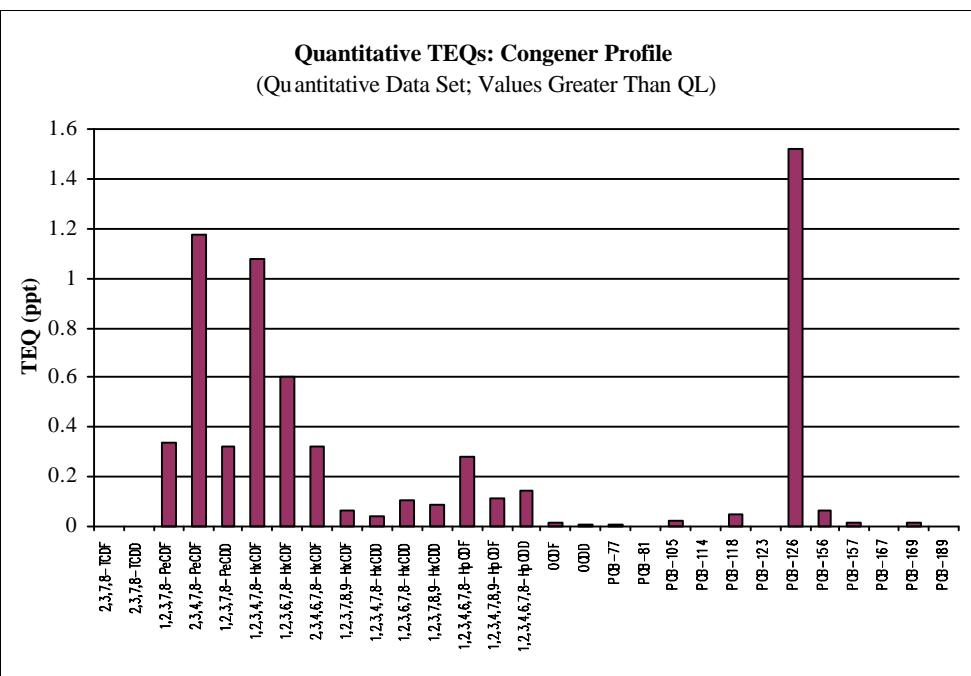
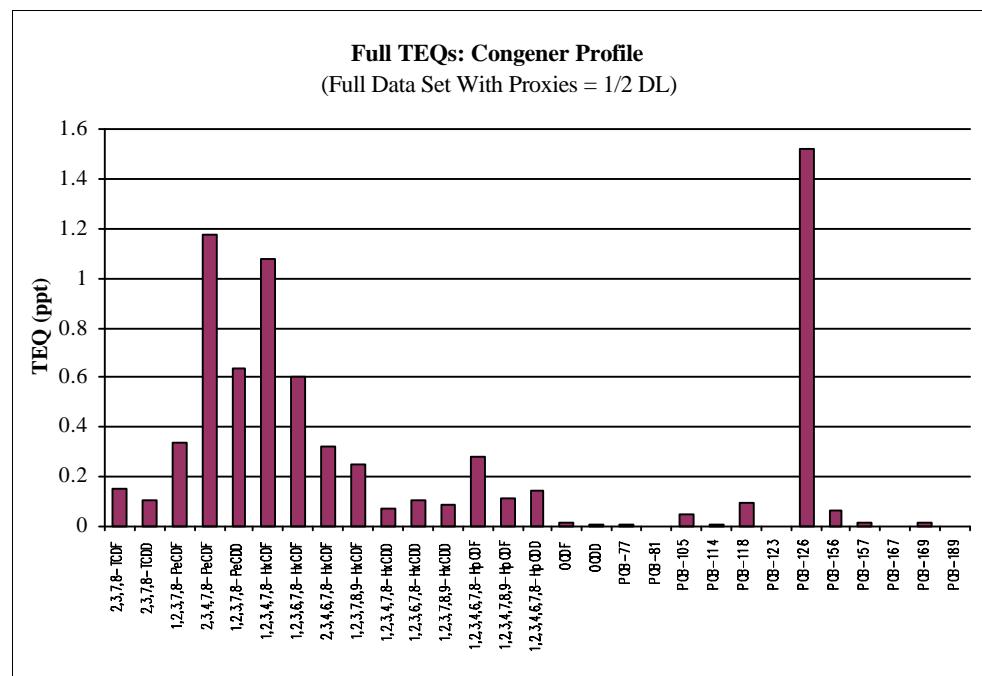
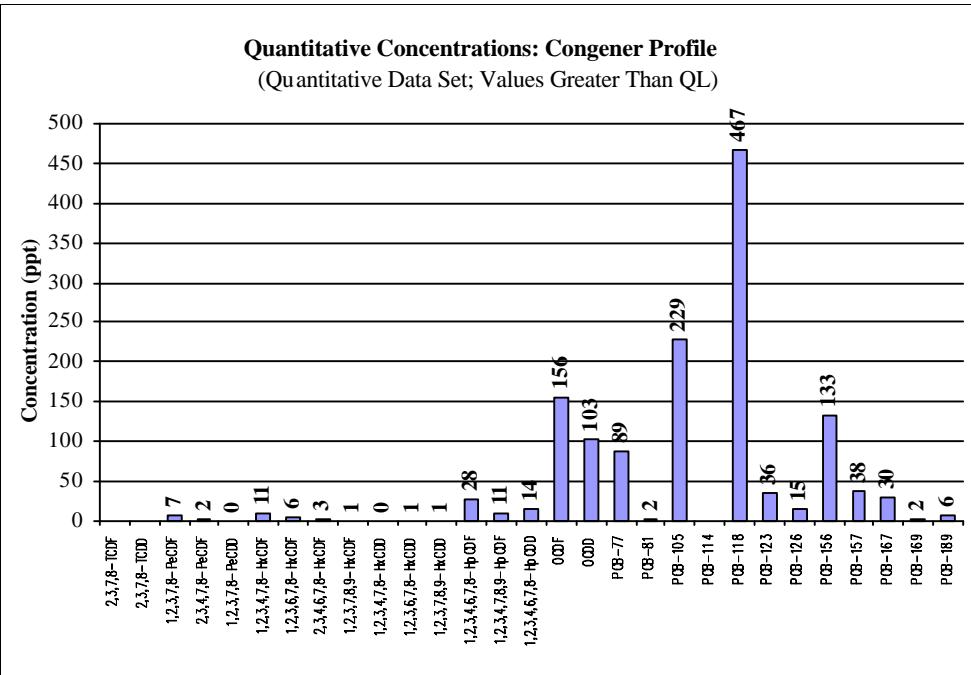
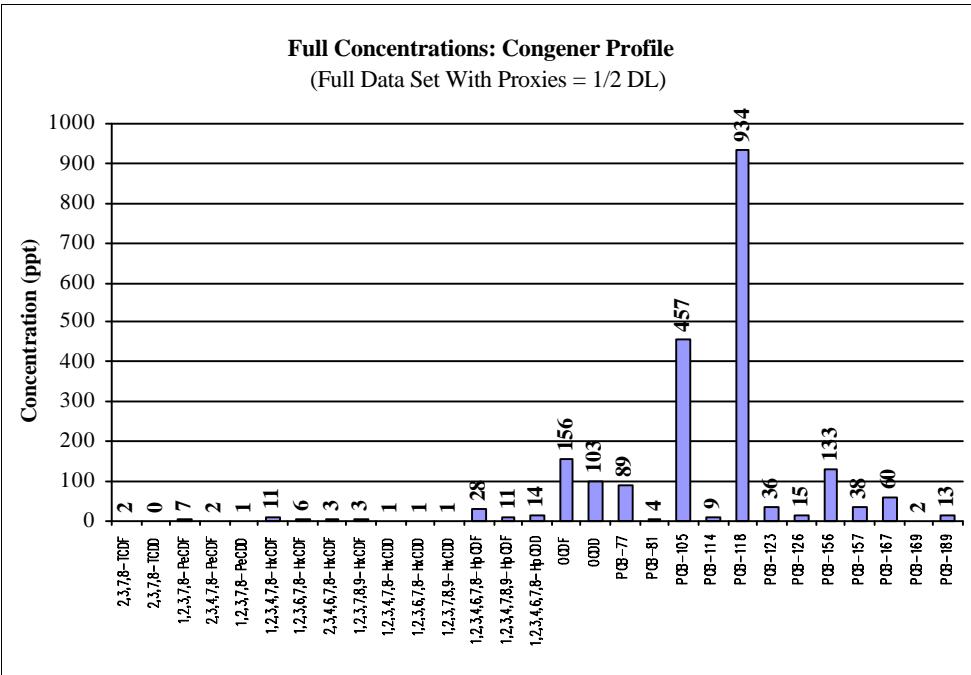
**Quantitative TEQs: Congener Profile**  
(Quantitative Data Set; Values Greater Than QL)



These results were used in congener pattern analysis.

*Sample 404*

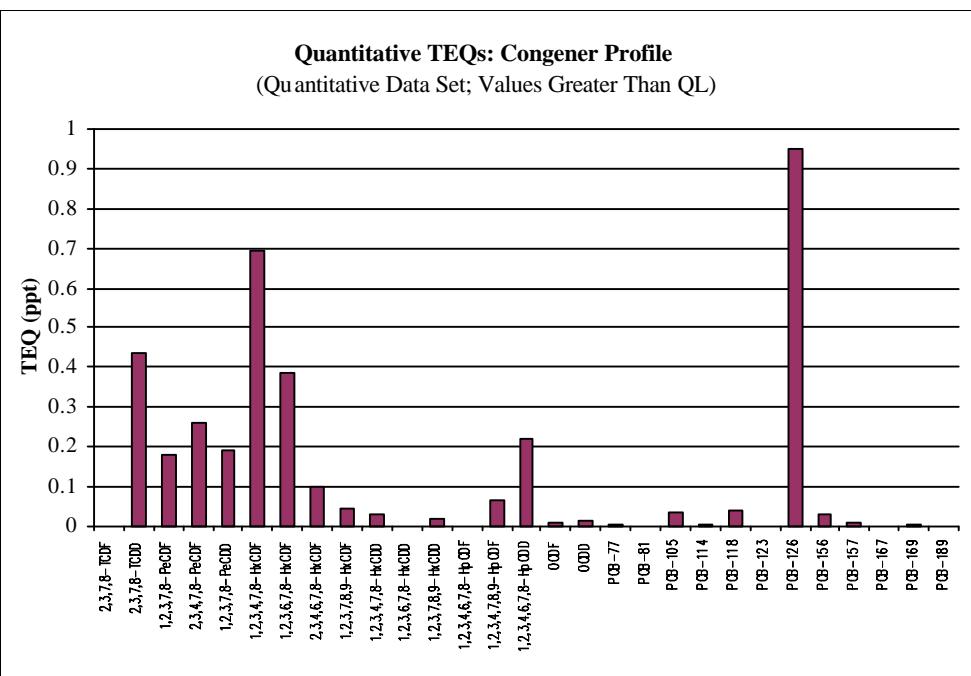
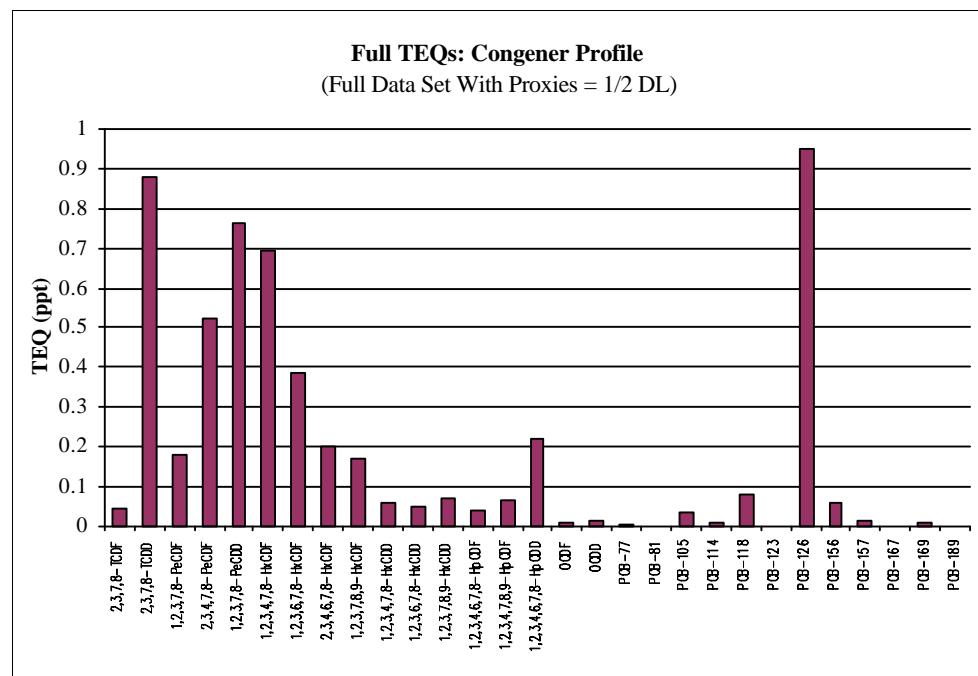
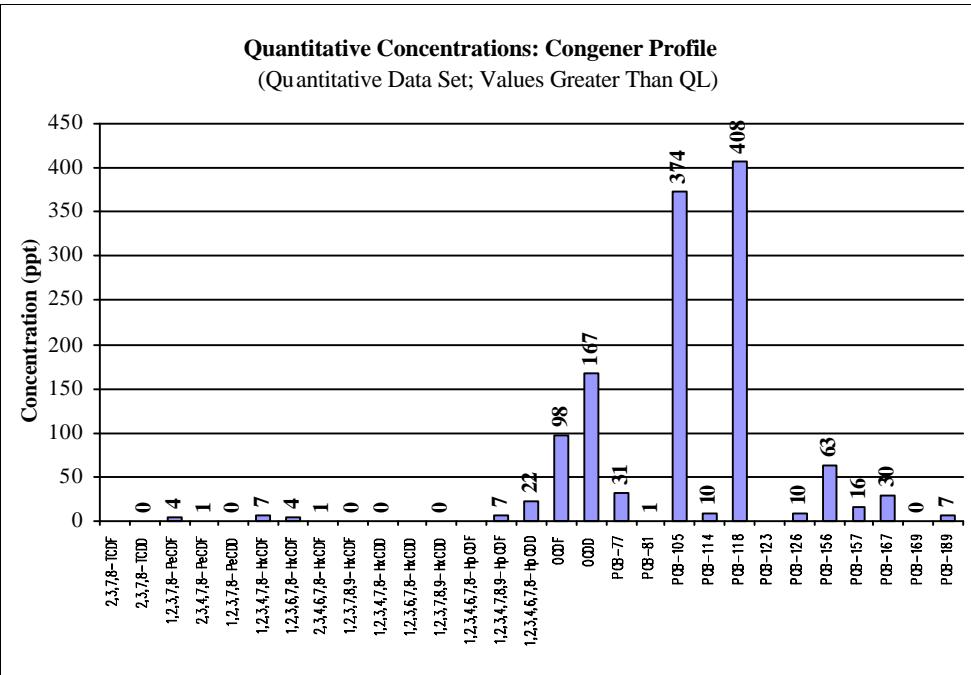
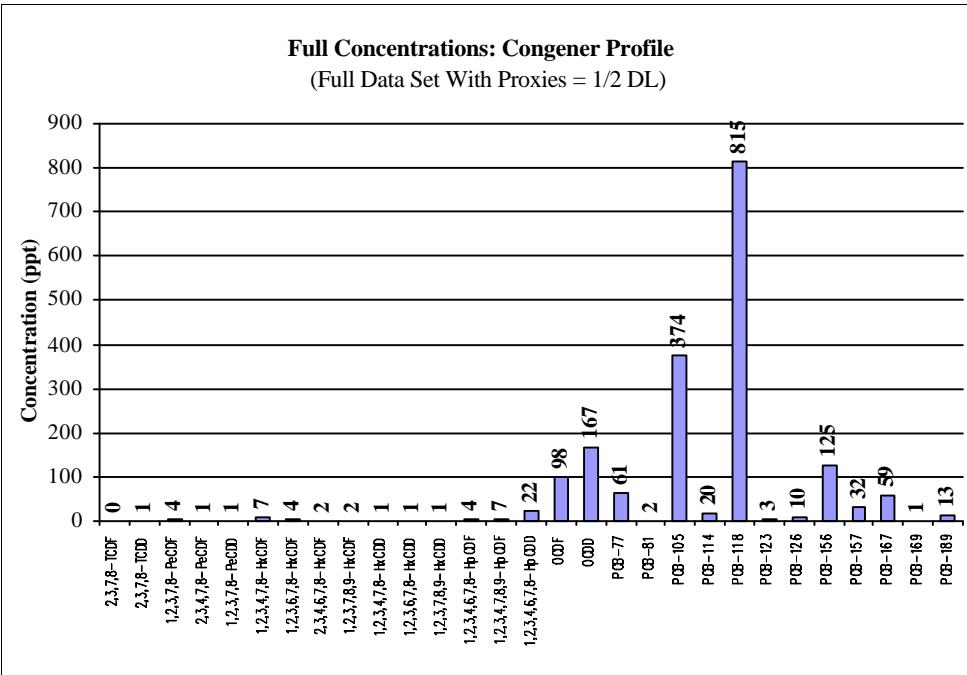
P-9



These results were used in congener pattern analysis.

Sample 299

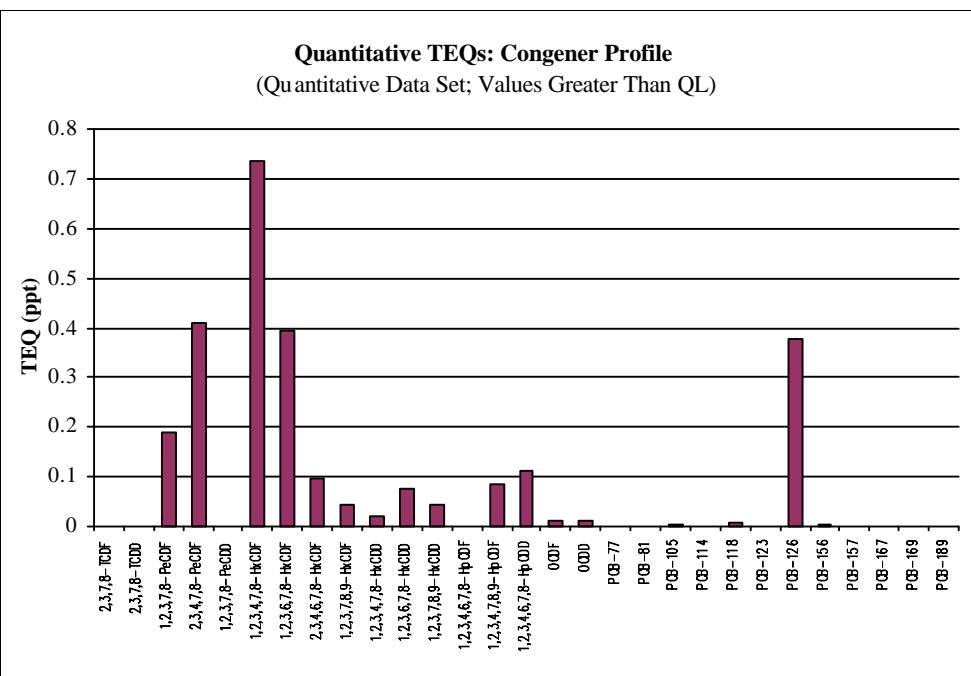
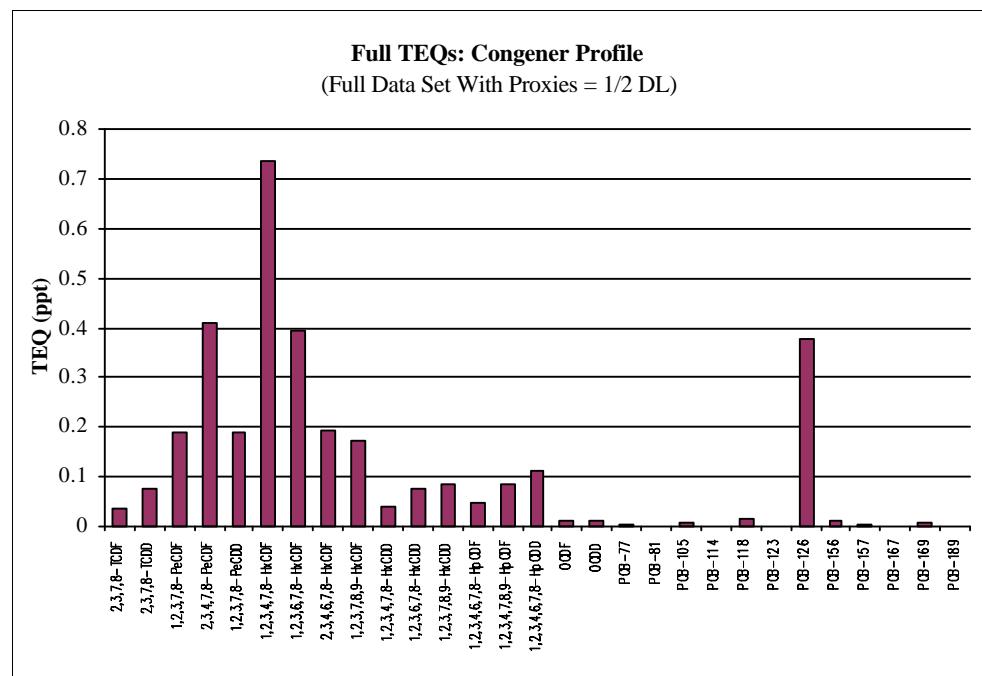
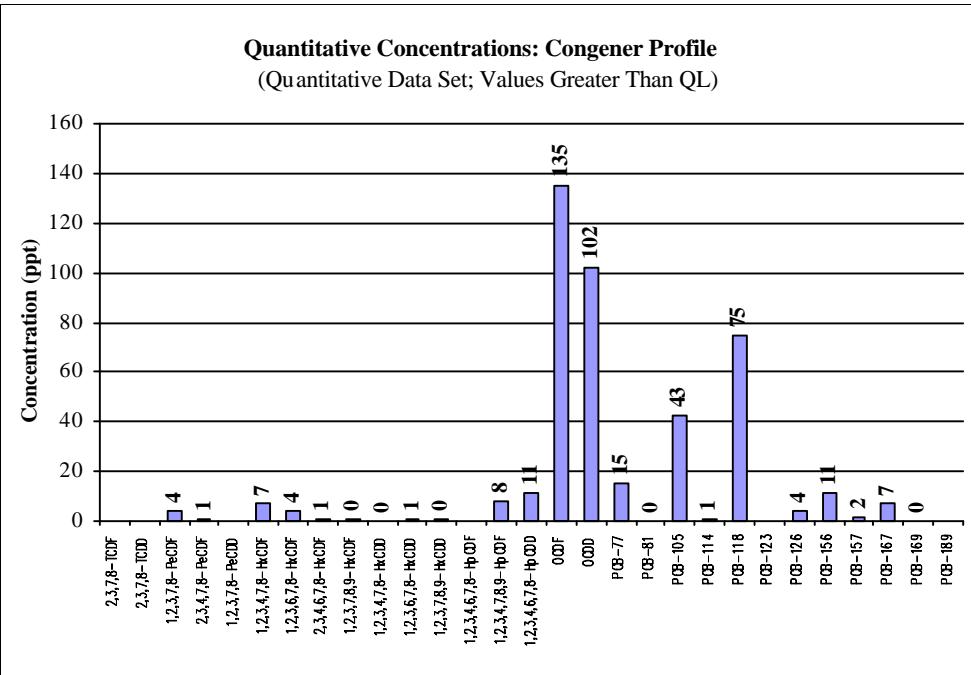
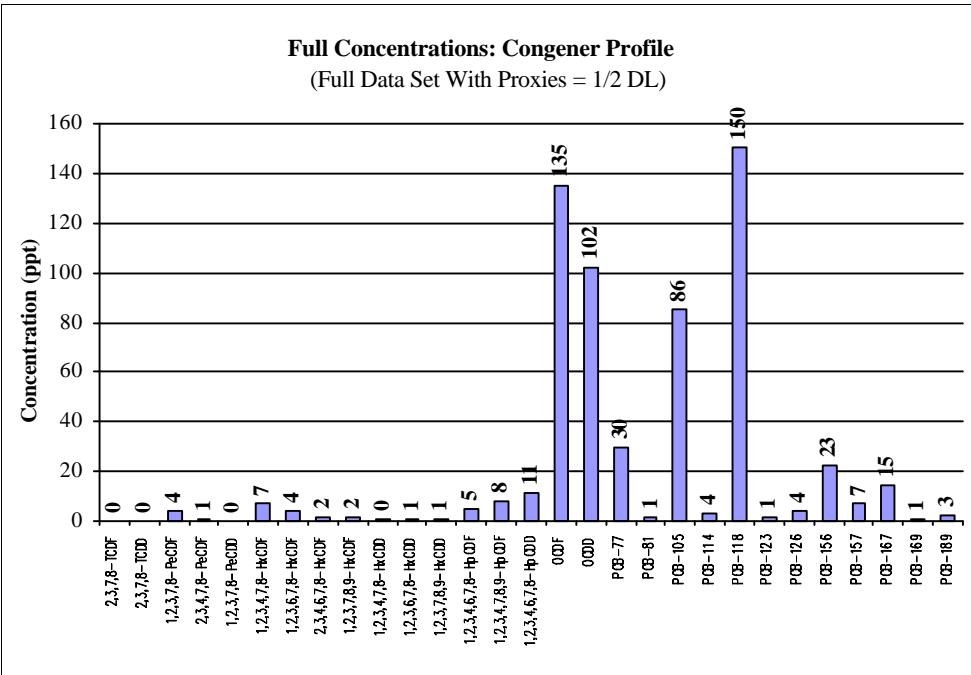
SP-1



These results were used in congener pattern analysis.

*Sample 571*

*SP-10*

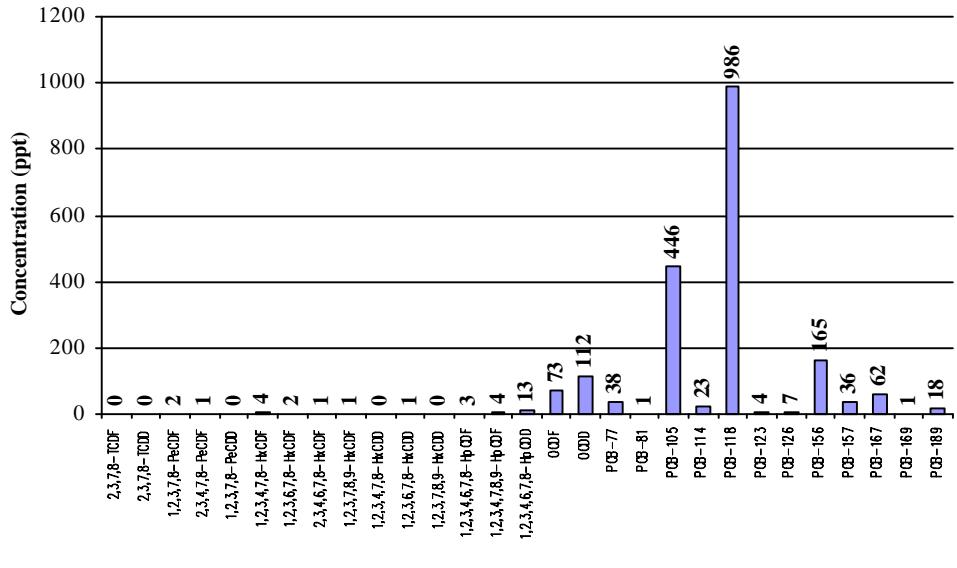


These results were used in congener pattern analysis.

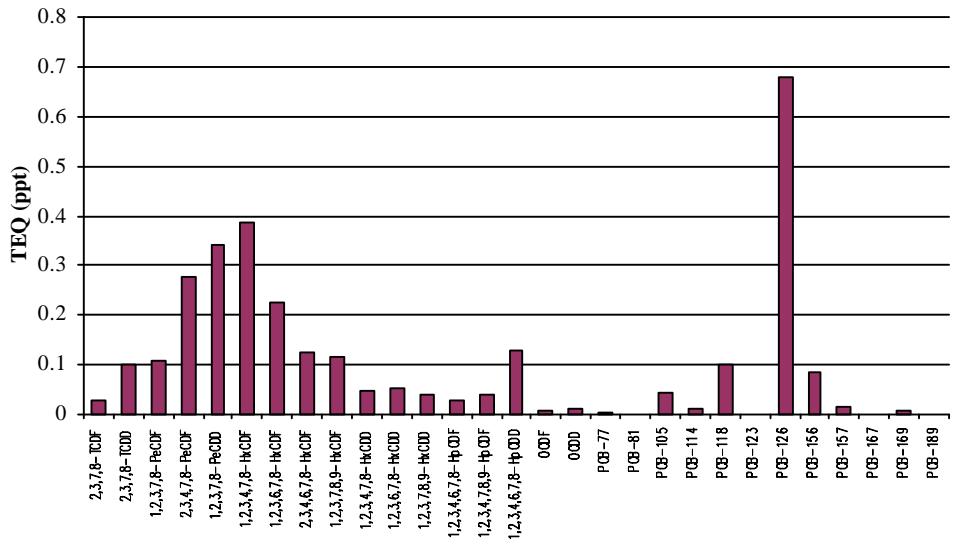
### Sample 461

### SP-11

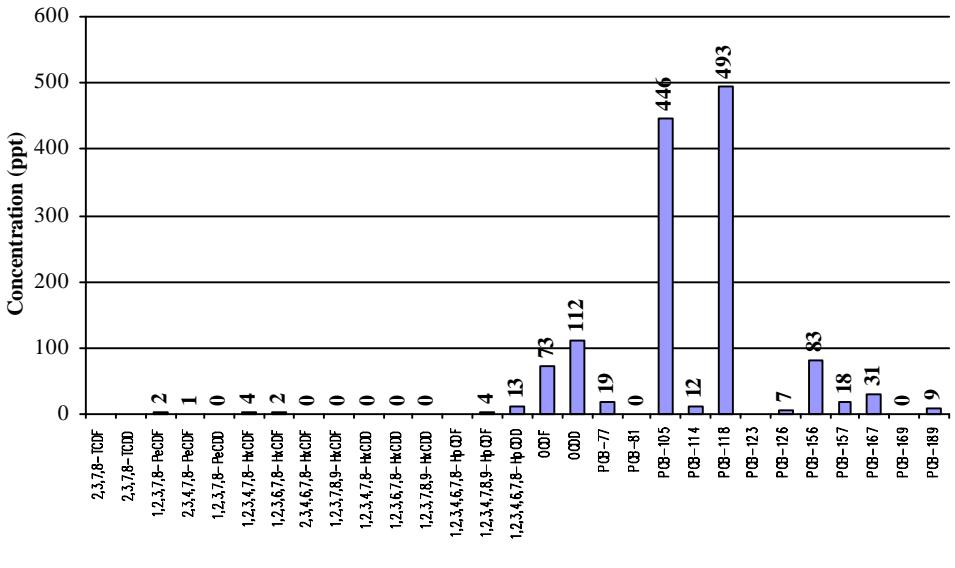
**Full Concentrations: Congener Profile**  
(Full Data Set With Proxies = 1/2 DL)



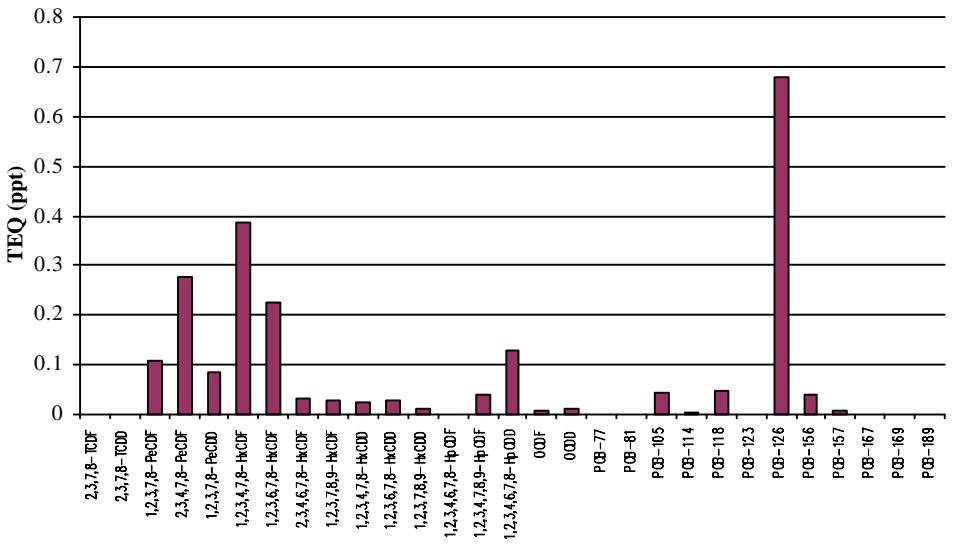
**Full TEQs: Congener Profile**  
(Full Data Set With Proxies = 1/2 DL)



**Quantitative Concentrations: Congener Profile**  
(Quantitative Data Set; Values Greater Than QL)

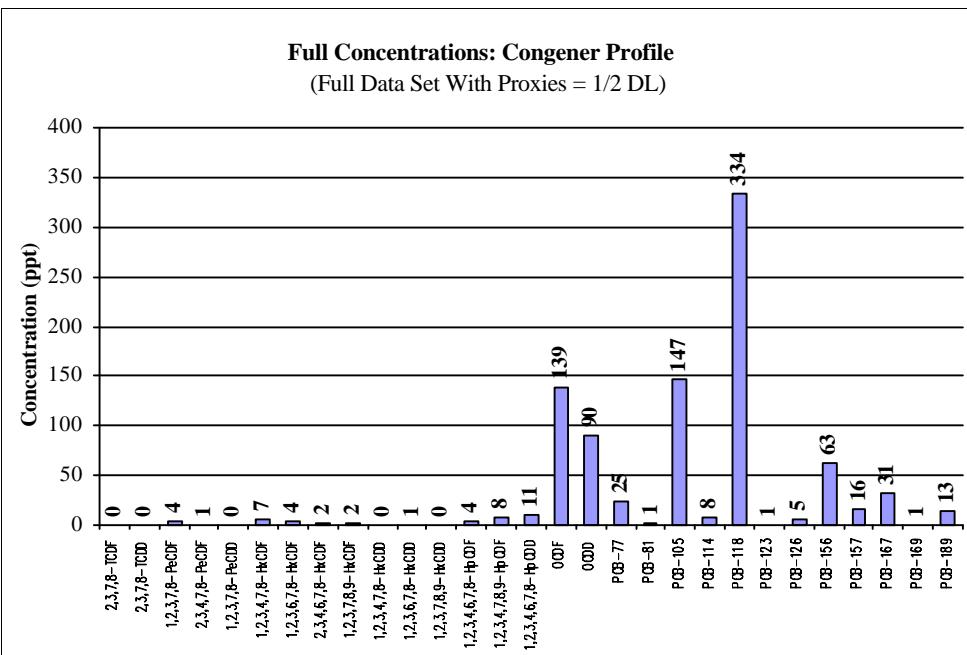


**Quantitative TEQs: Congener Profile**  
(Quantitative Data Set; Values Greater Than QL)

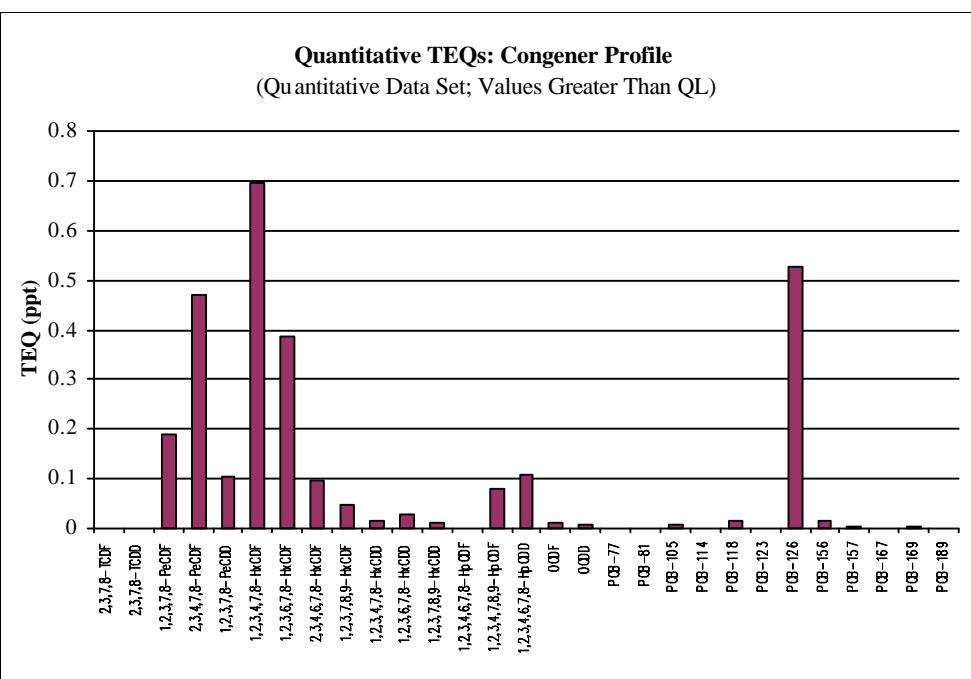
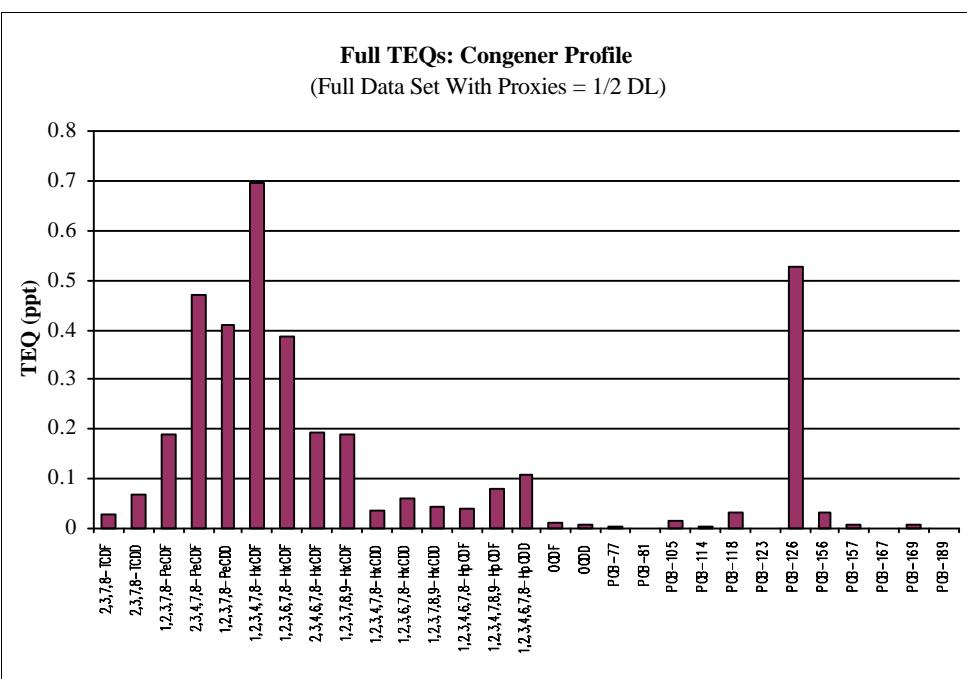
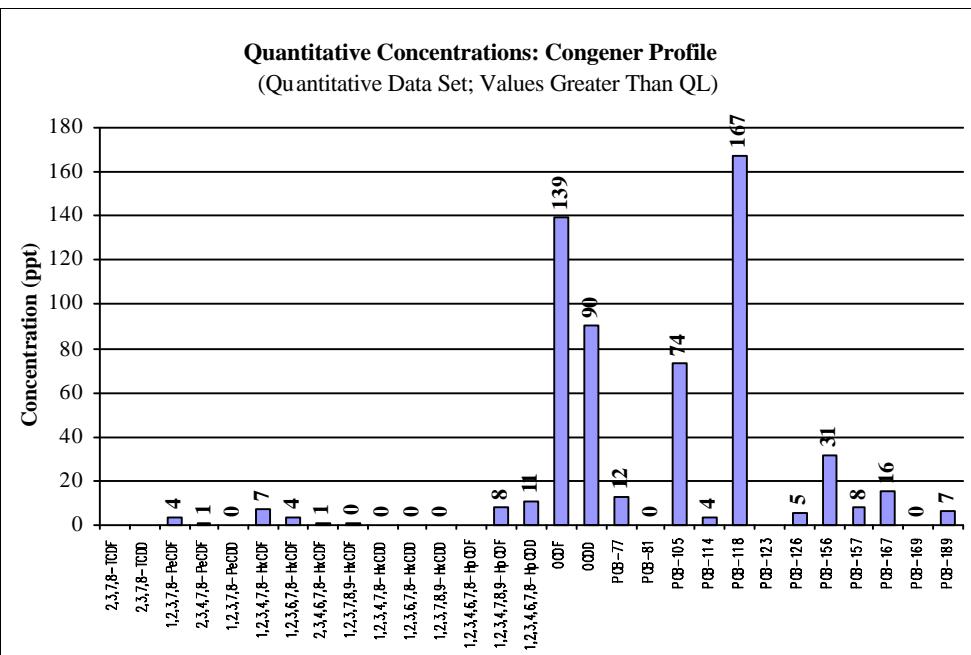


These results were used in congener pattern analysis.

### Sample 692



### SP-12

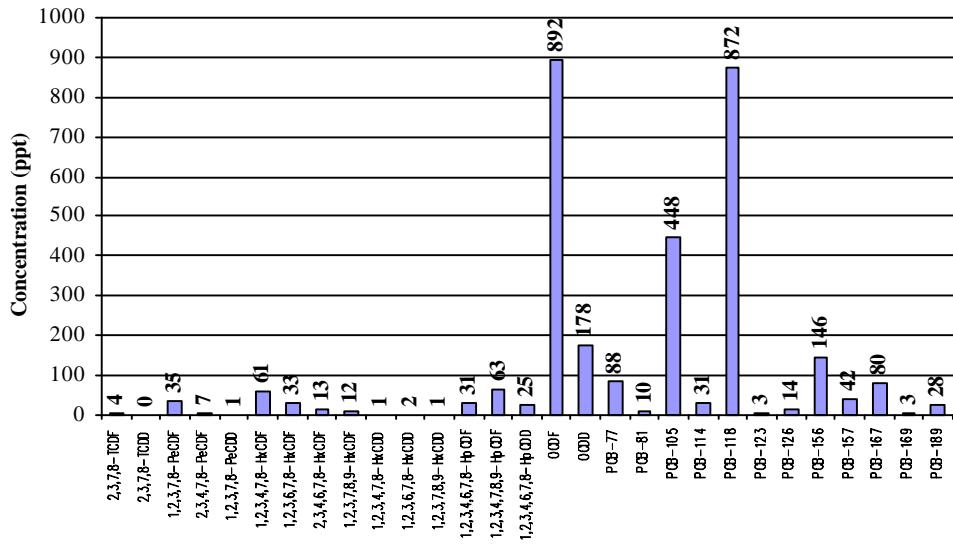


These results were used in congener pattern analysis.

Sample 515

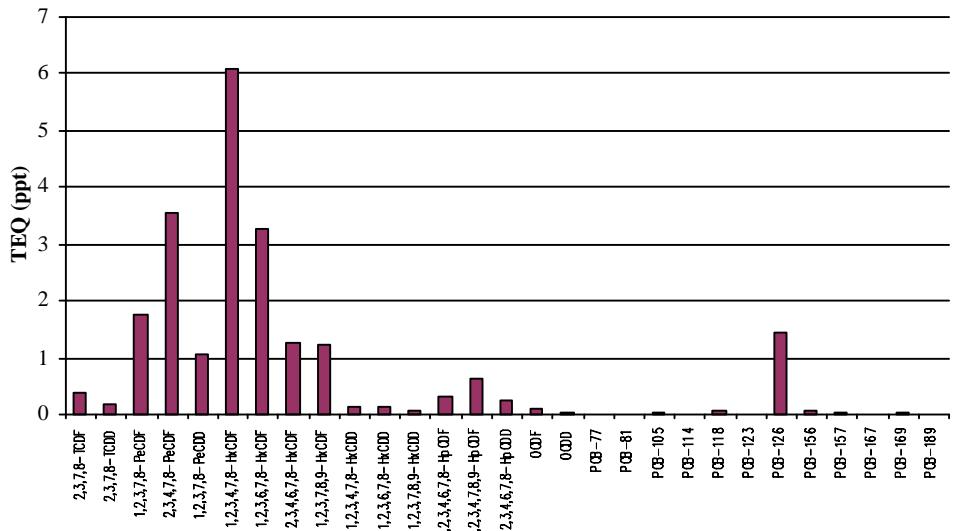
SP-2

## Full Concentrations: Congener Profile (Full Data Set With Proxies = 1/2 DL)

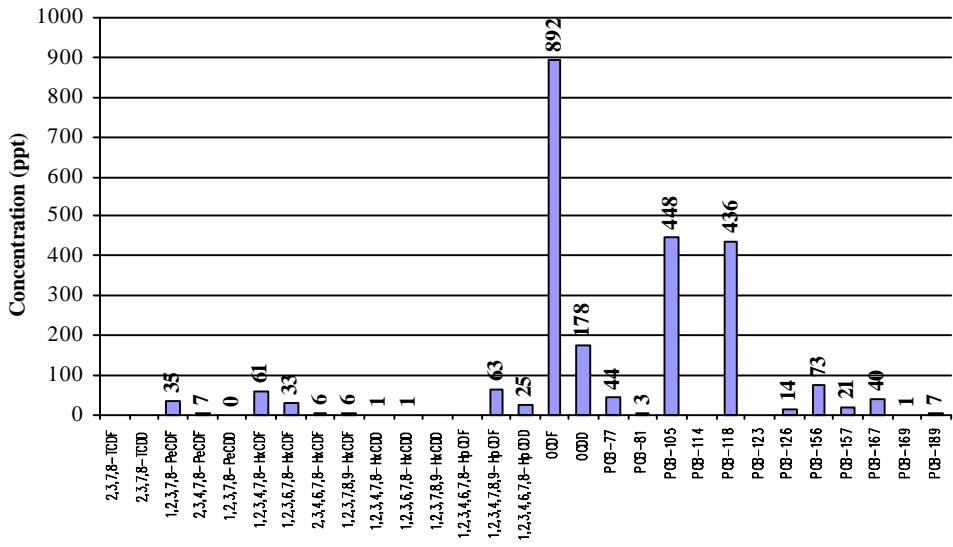


## **Full TEQs: Congener Profile**

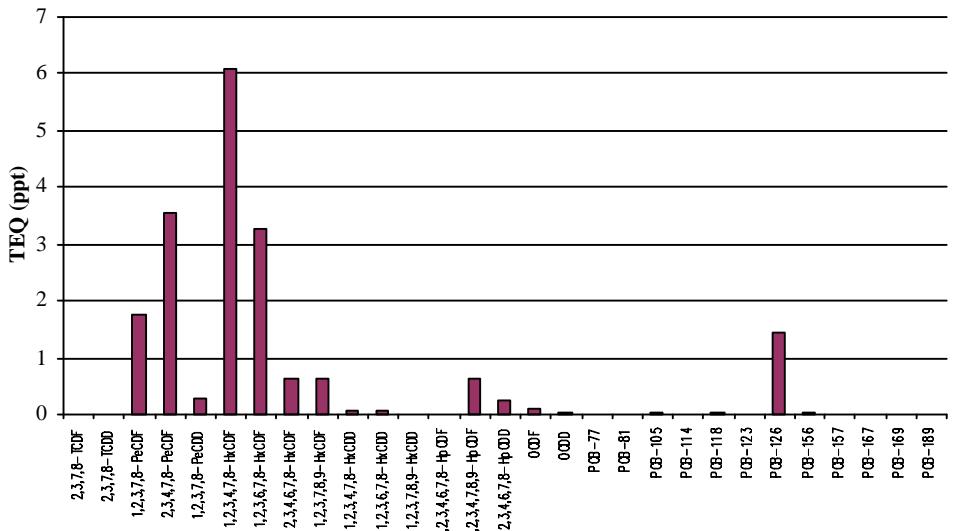
(Full Data Set With Proxies = 1/2 DL)



## **Quantitative Concentrations: Congener Profile**



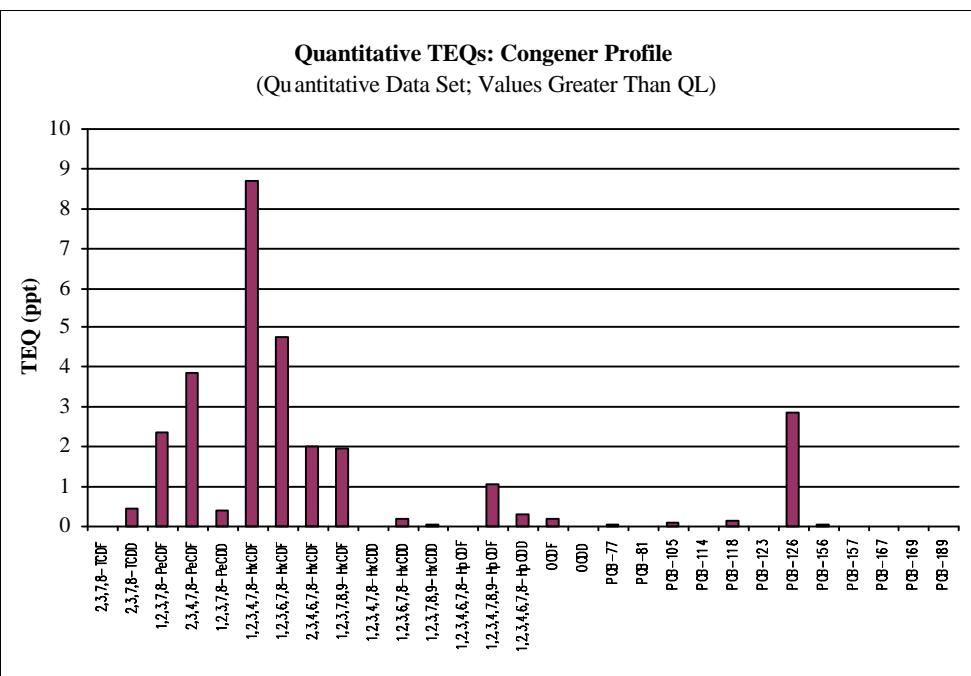
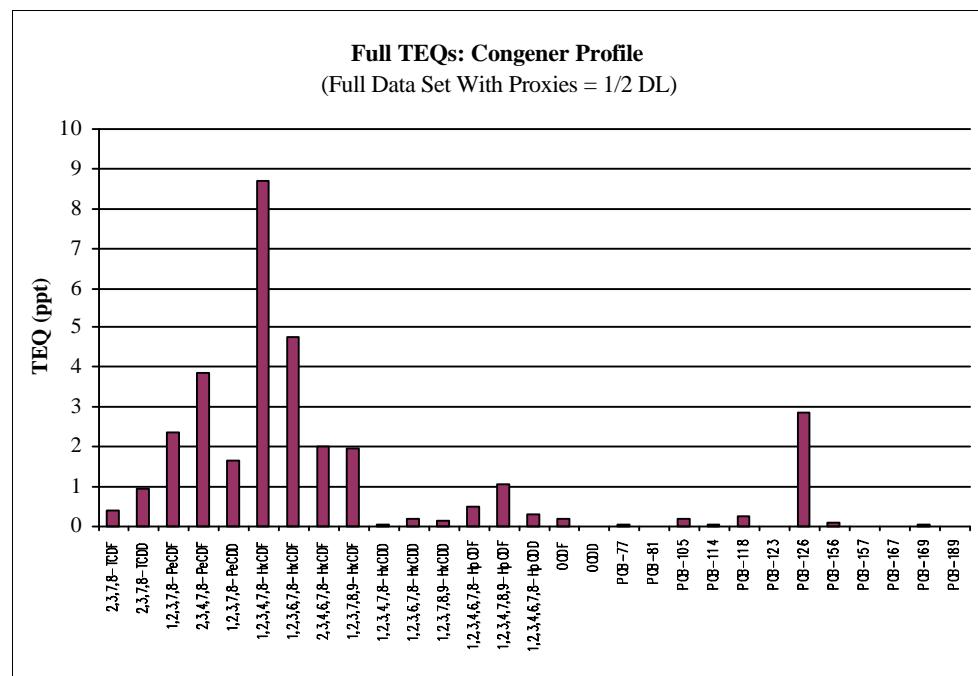
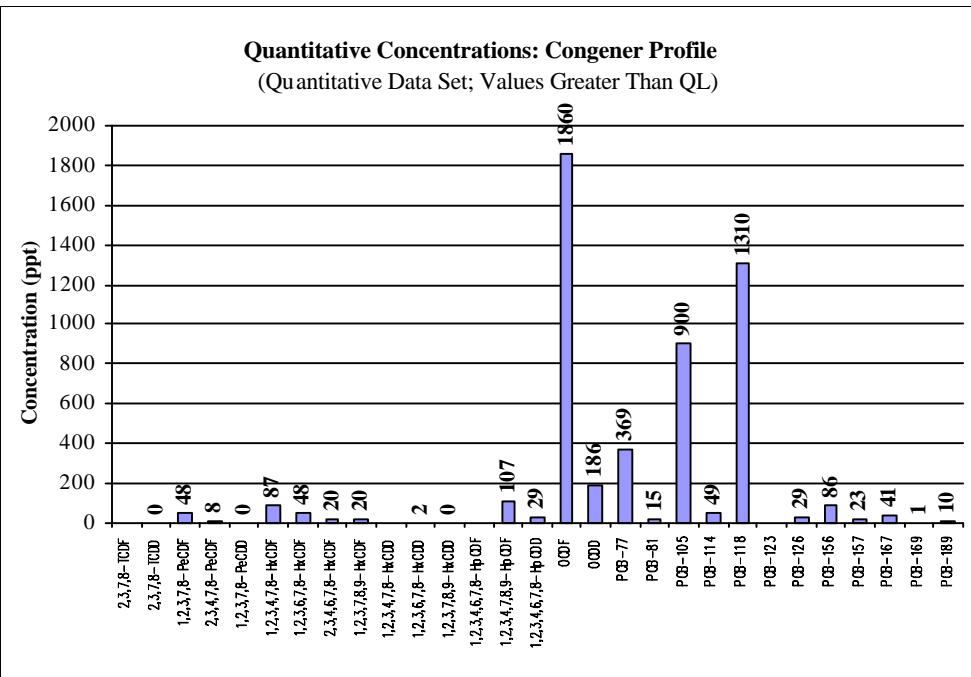
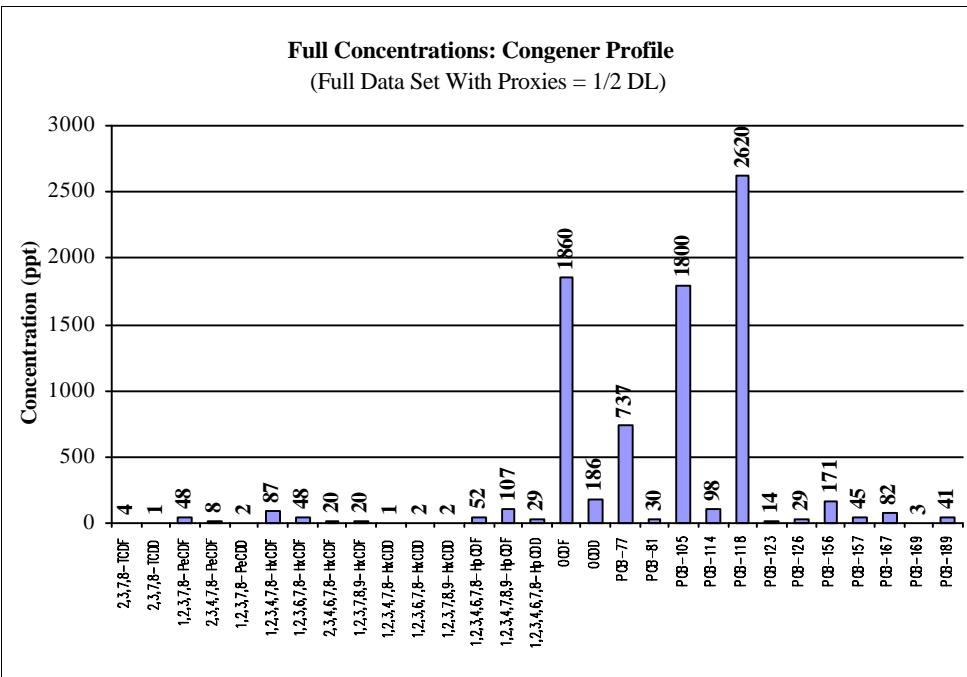
## Quantitative TEQs: Congener Profile



These results were used in congener pattern analysis.

Sample 282

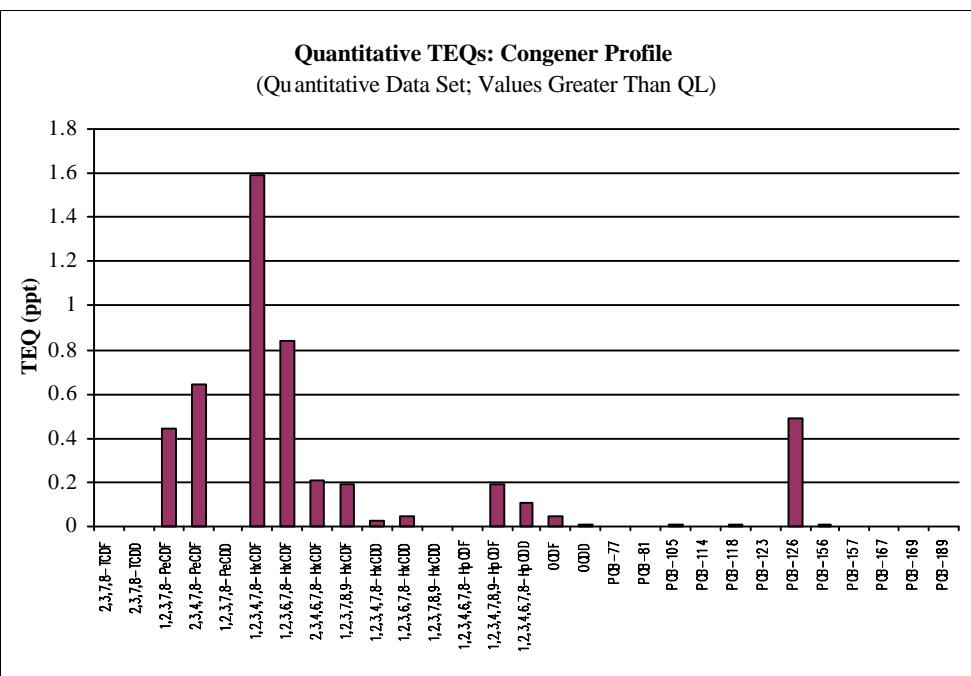
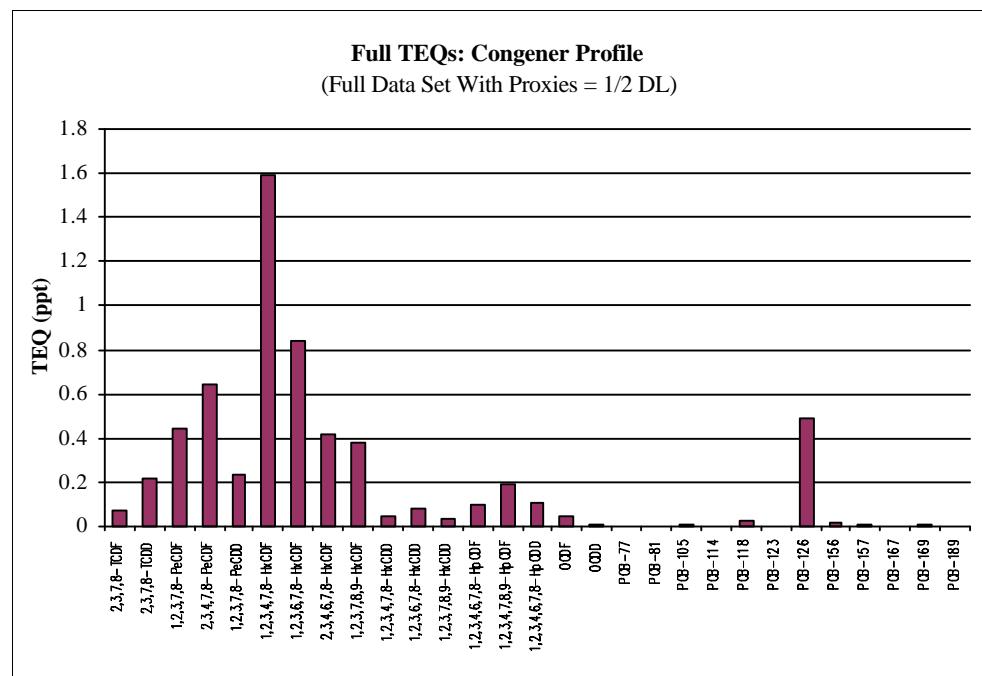
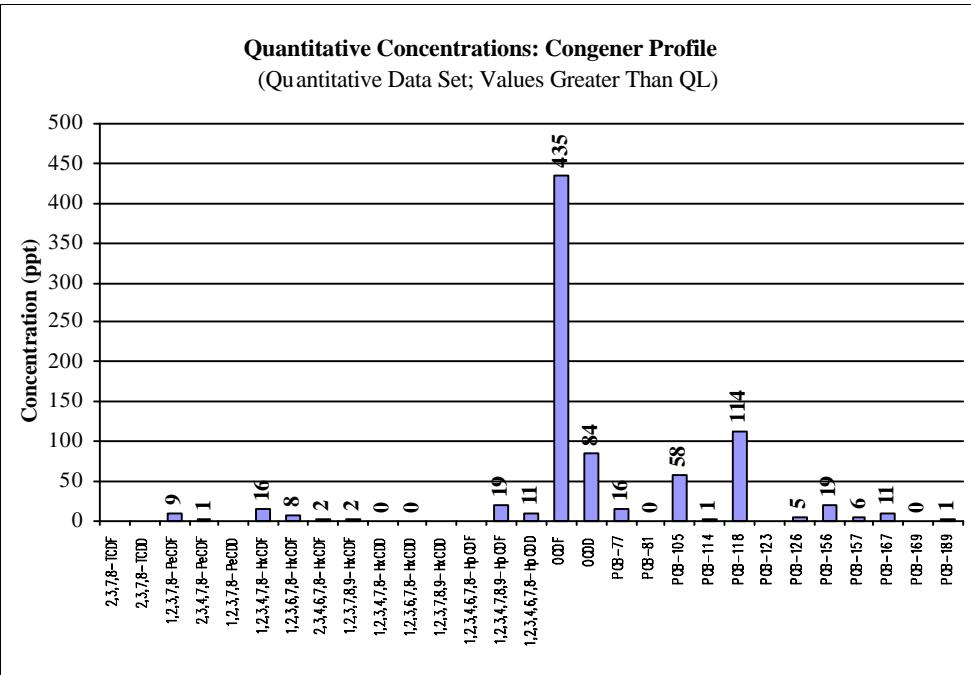
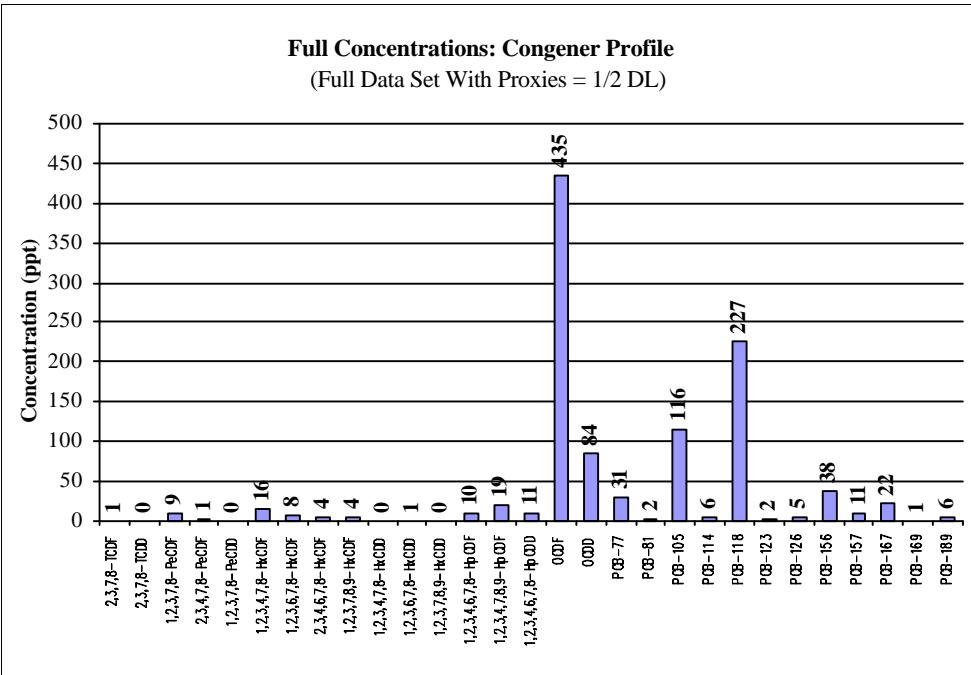
SP-3



These results were used in congener pattern analysis.

Sample 909

*SP-4*

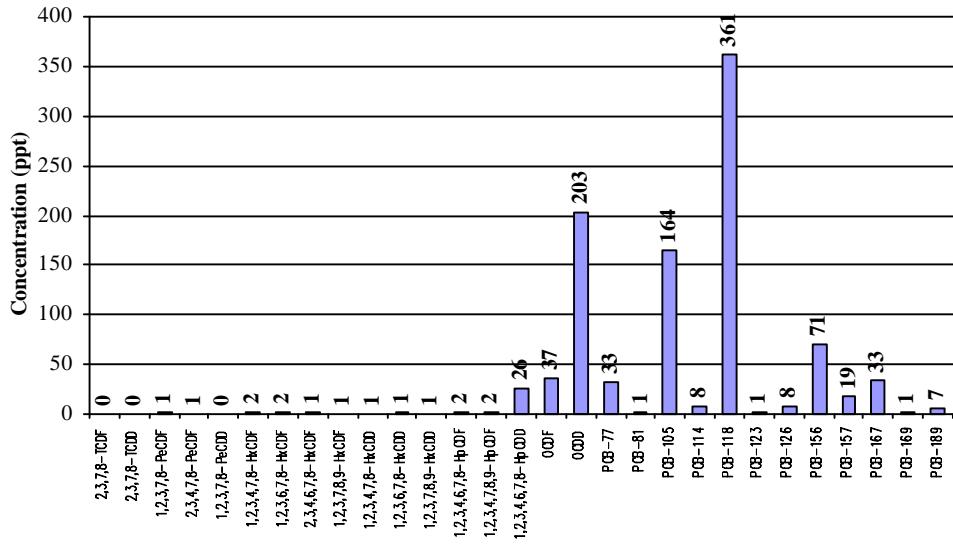


These results were used in congener pattern analysis.

### *Sample 218*

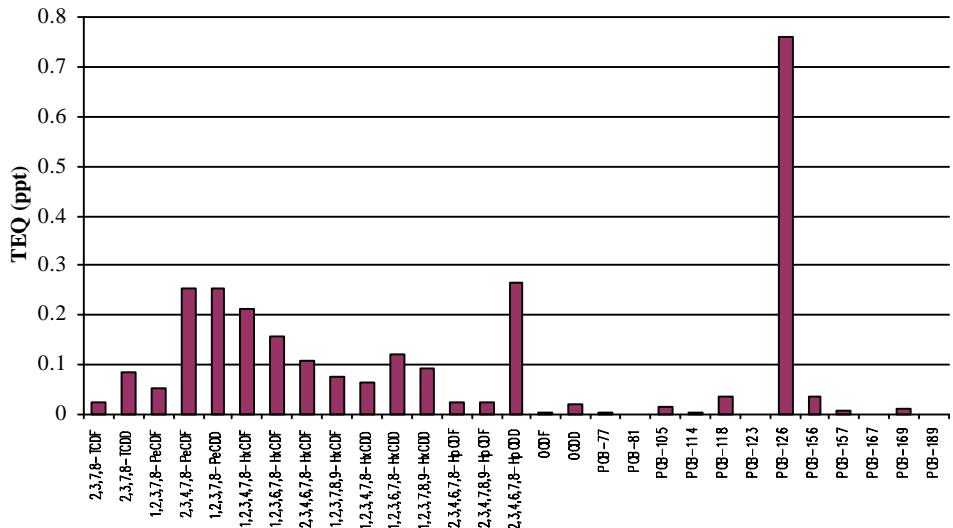
SP-5

## Full Concentrations: Congener Profile (Full Data Set With Proxies = 1/2 DL)



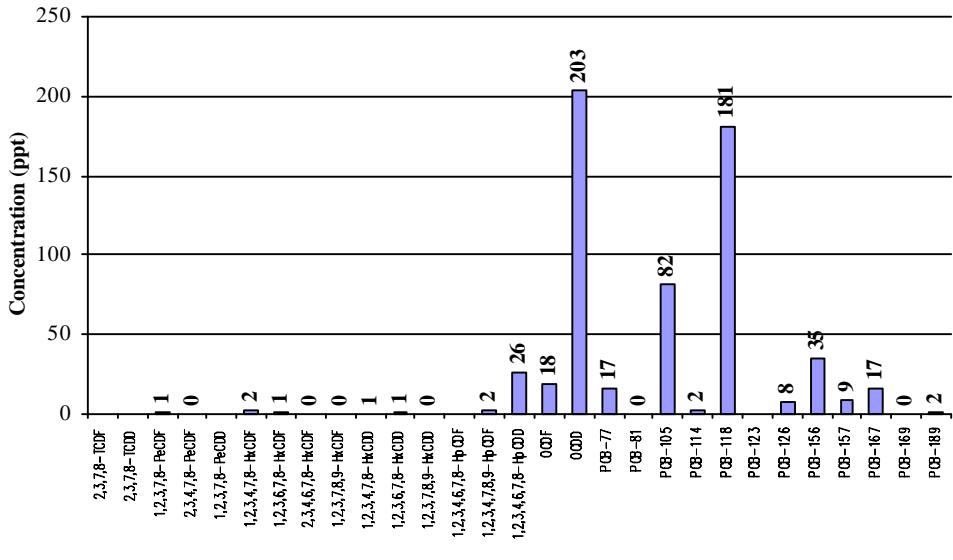
## **Full TEQs: Congener Profile**

(Full Data Set With Proxies = 1/2 DL)



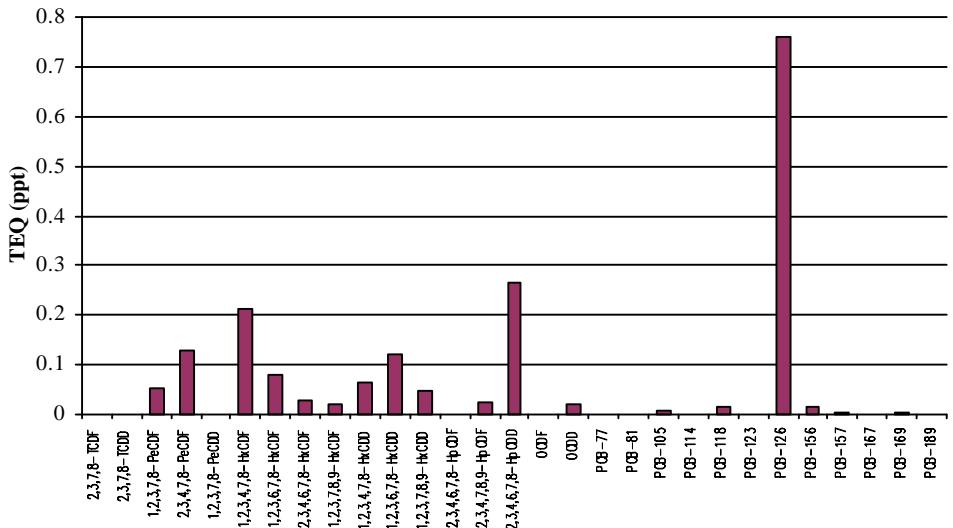
## **Quantitative Concentrations: Congener Profile**

(Quantitative Data Set; Values Greater Than QL)



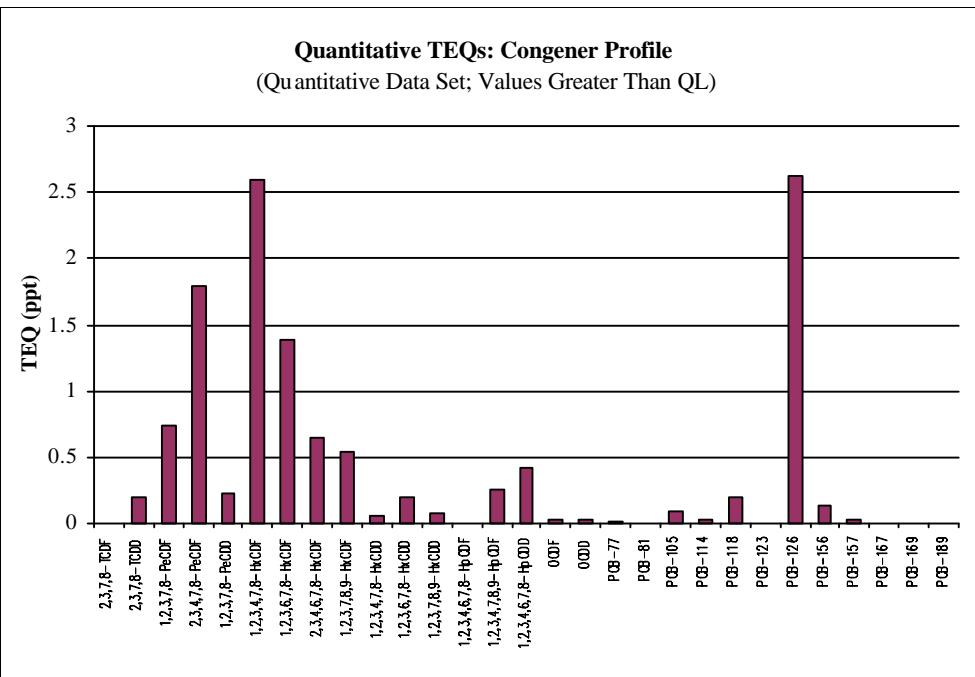
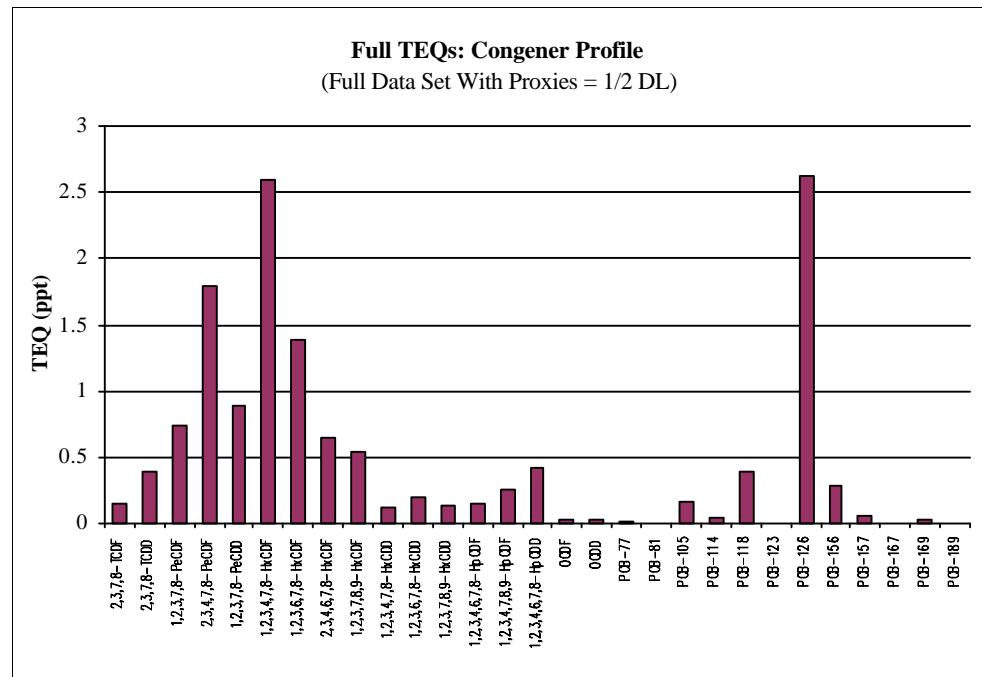
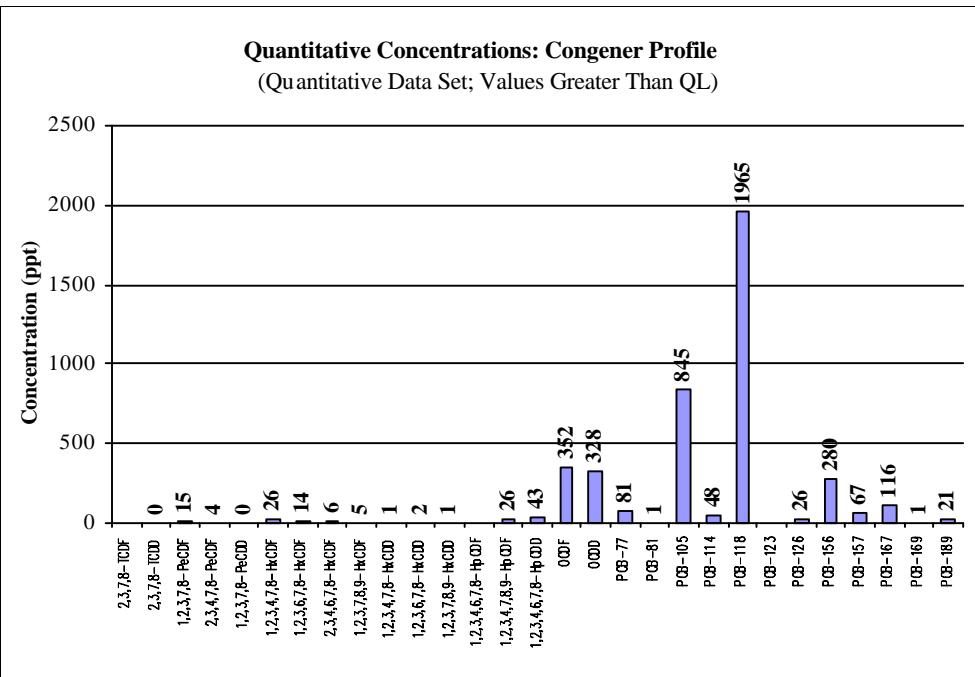
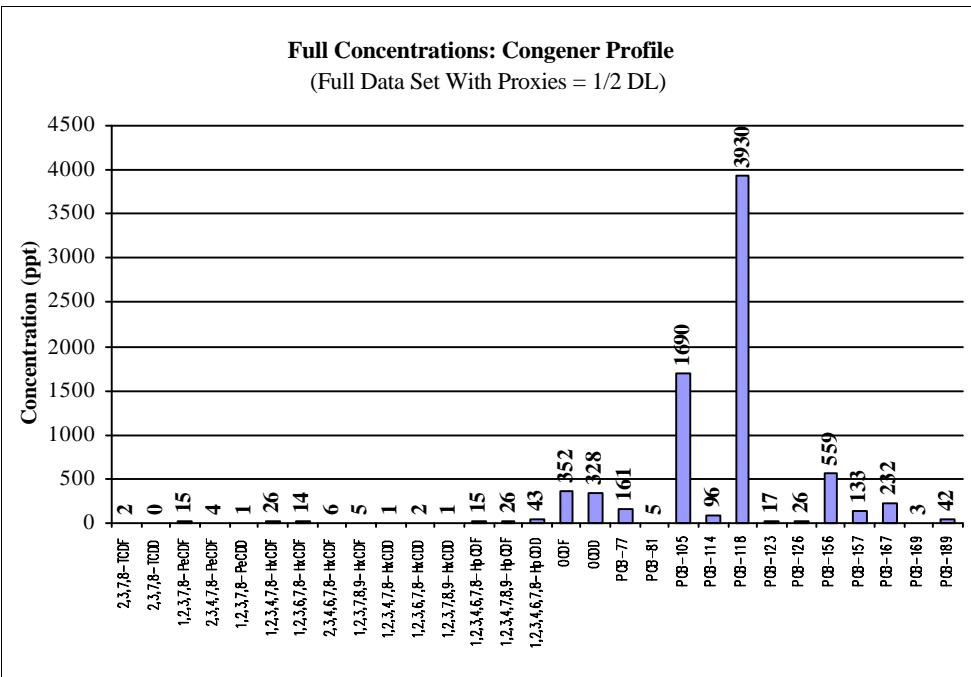
## **Quantitative TEQs: Congener Profile**

(Qu antitative Data Set; Values Greater Than QL)



These results were used in congener pattern analysis.

Sample 523

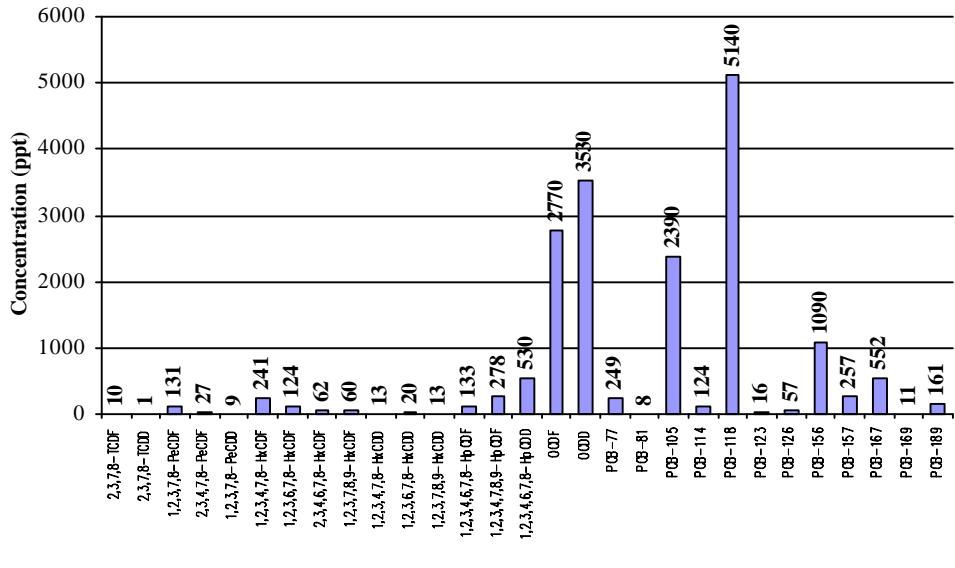


These results were used in congener pattern analysis.

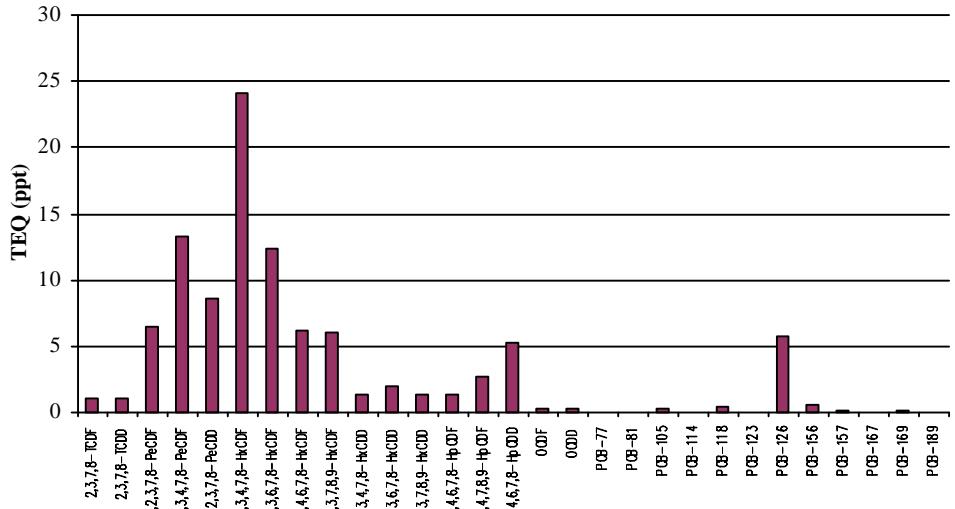
### Sample 347

### SP-7

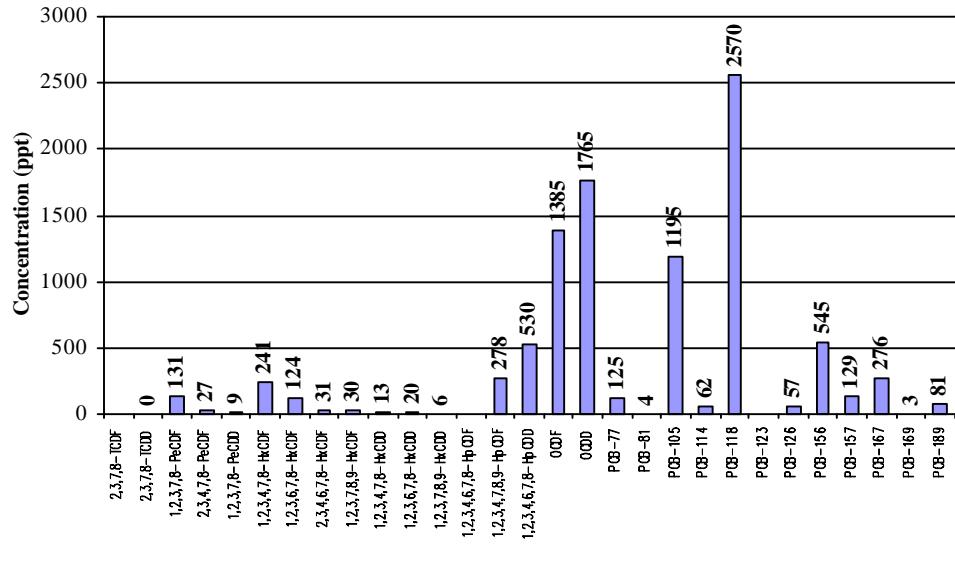
**Full Concentrations: Congener Profile**  
(Full Data Set With Proxies = 1/2 DL)



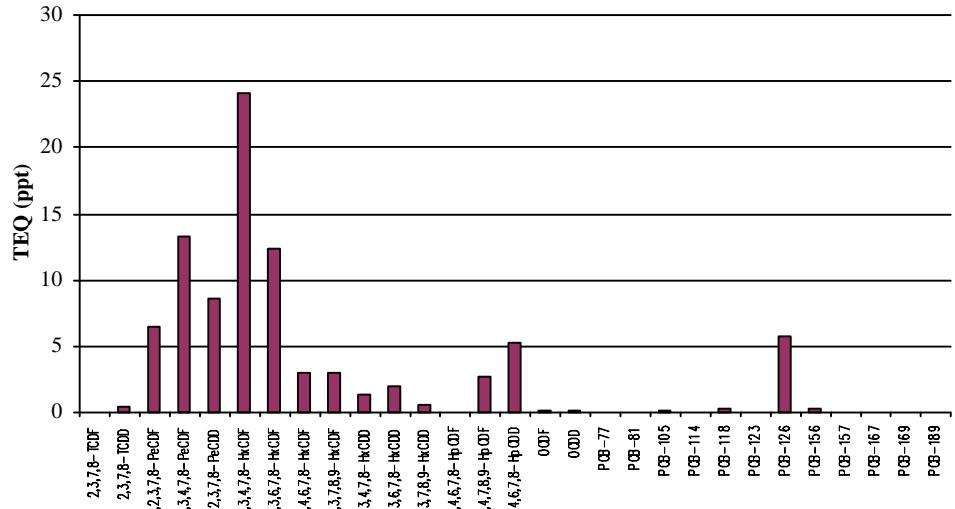
**Full TEQs: Congener Profile**  
(Full Data Set With Proxies = 1/2 DL)



**Quantitative Concentrations: Congener Profile**  
(Quantitative Data Set; Values Greater Than QL)

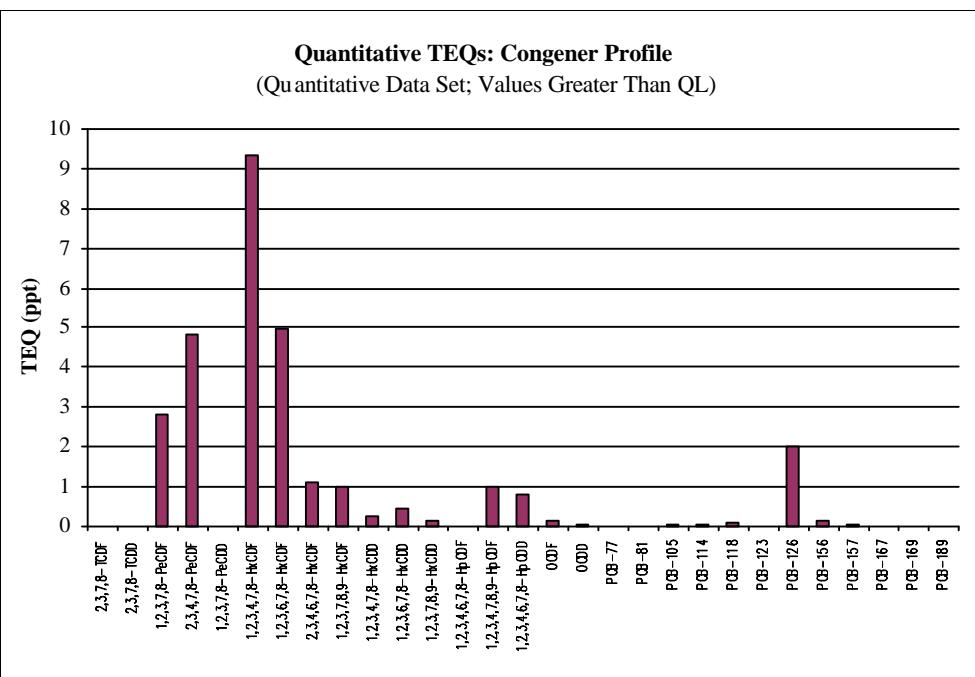
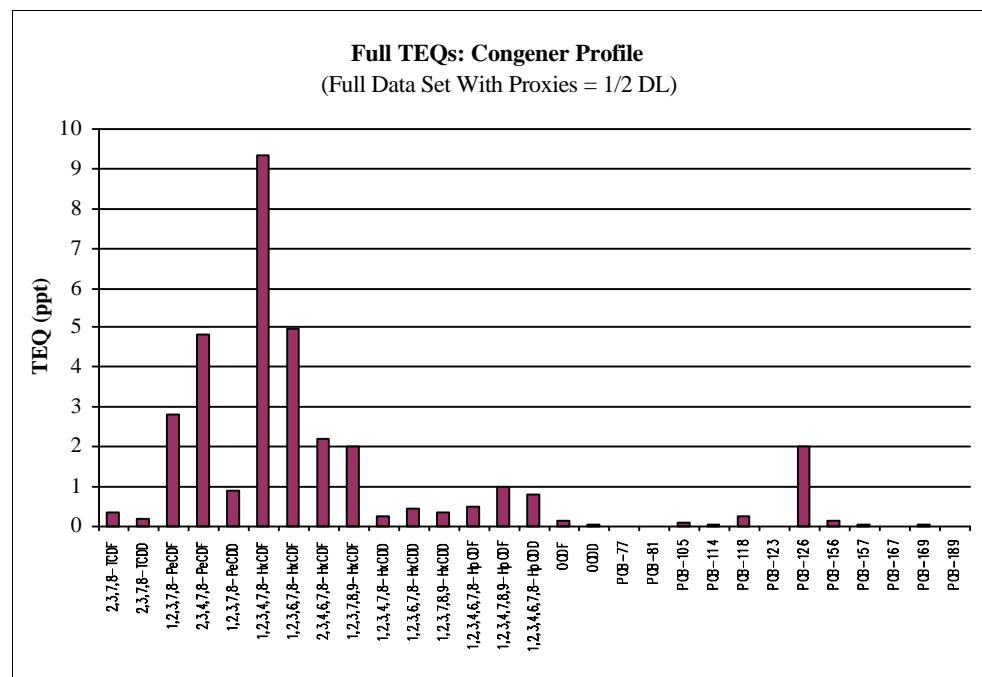
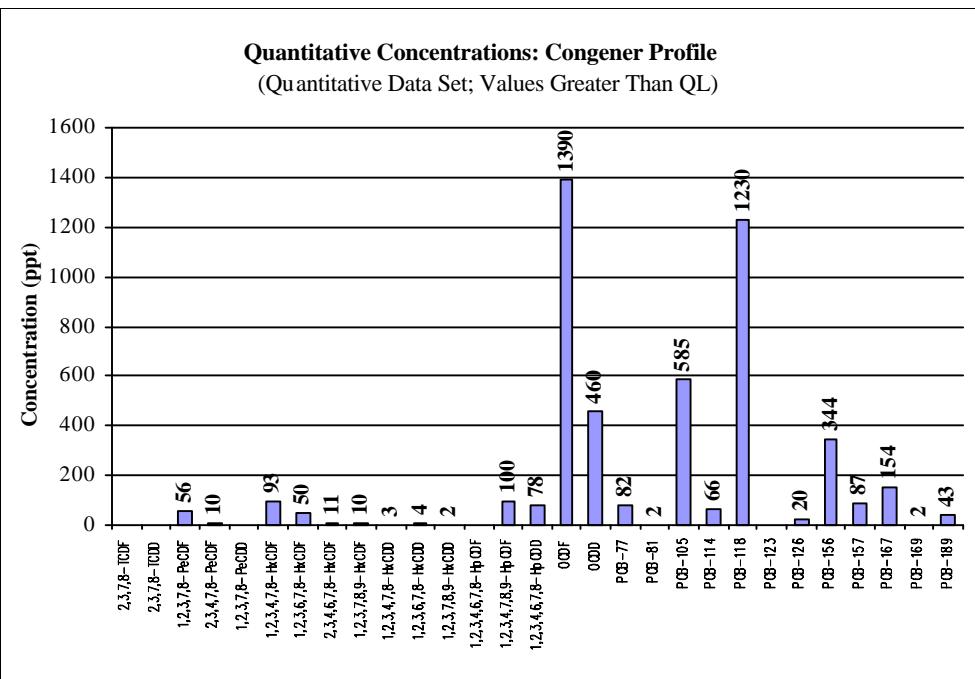
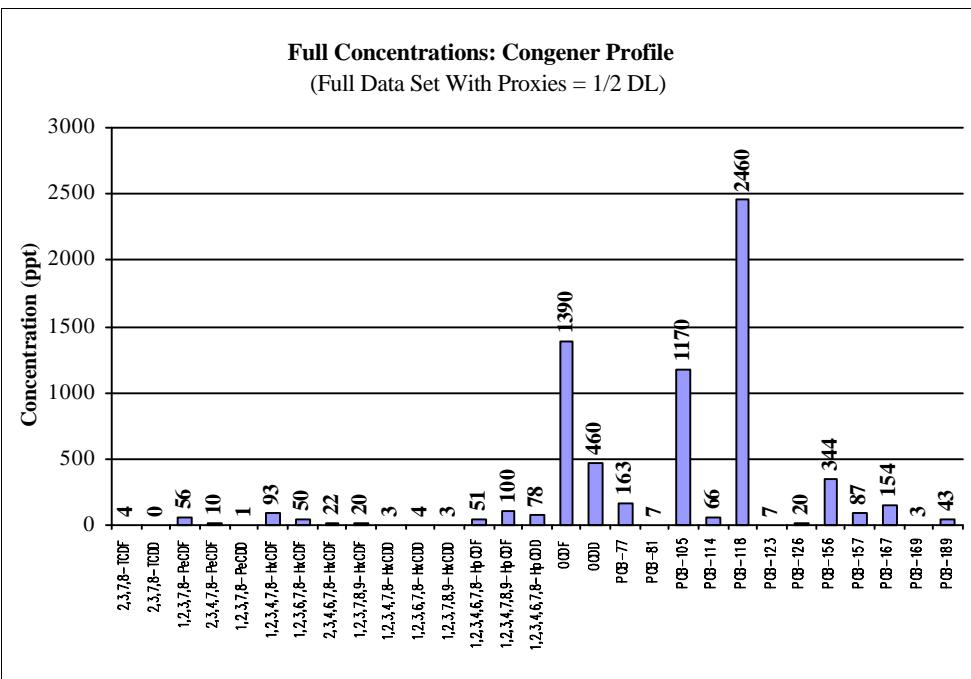


**Quantitative TEQs: Congener Profile**  
(Quantitative Data Set; Values Greater Than QL)



These results were used in congener pattern analysis.

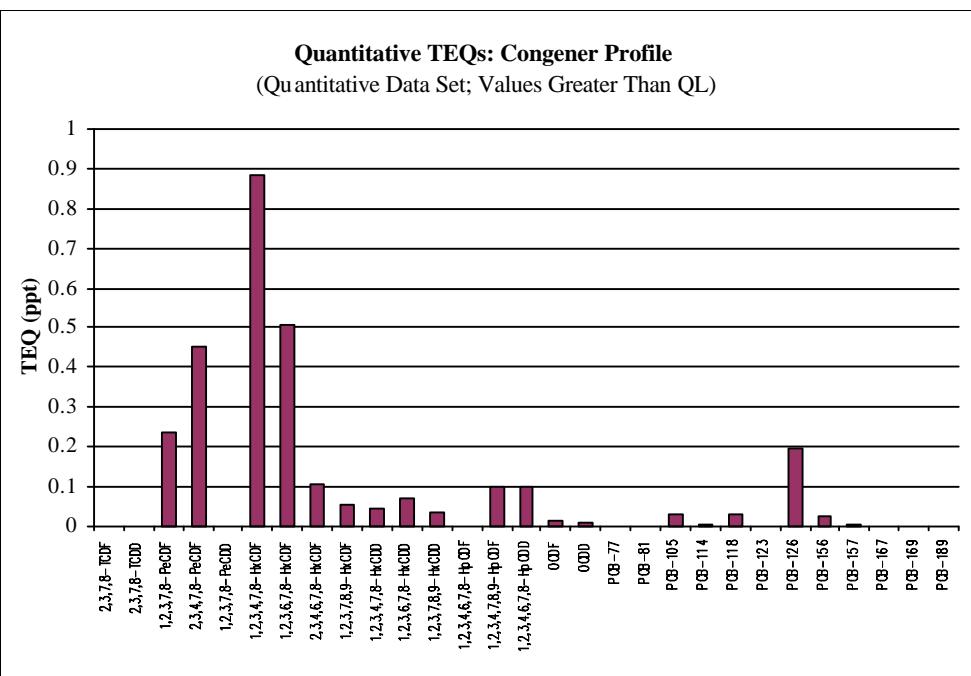
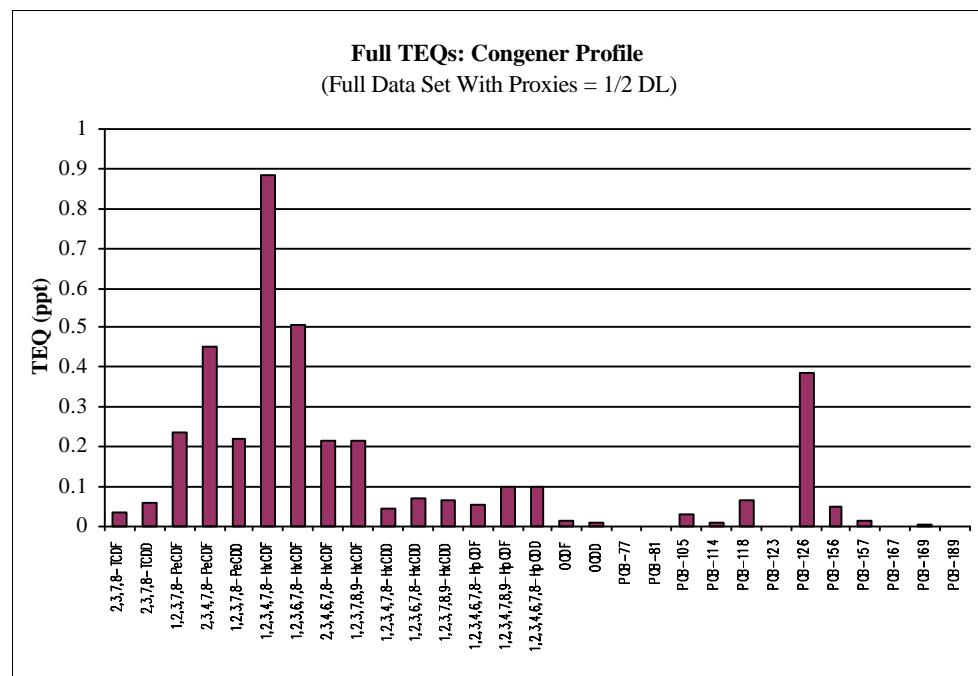
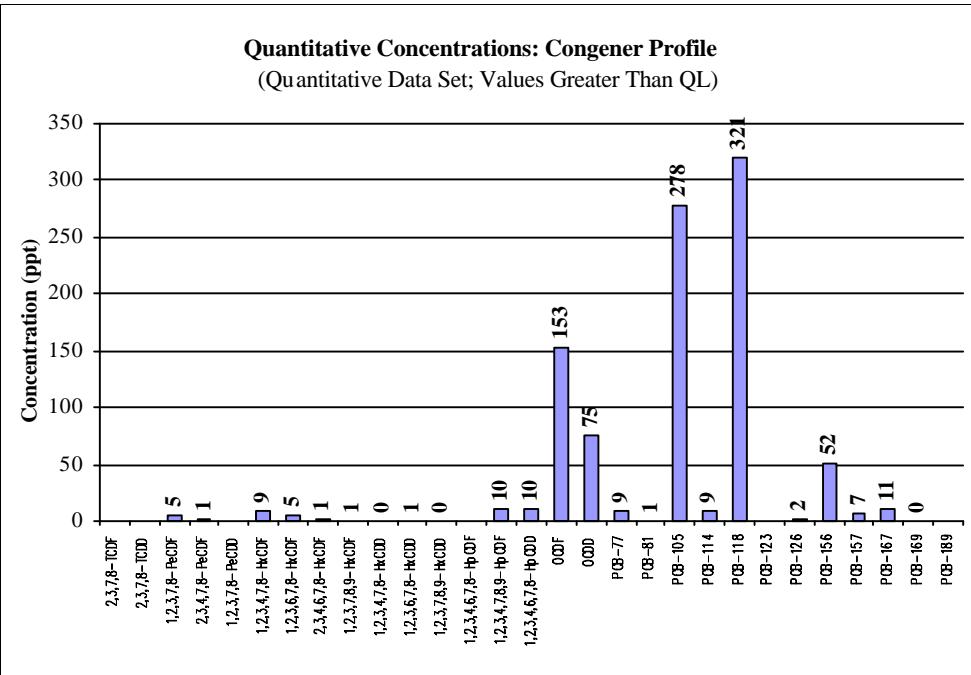
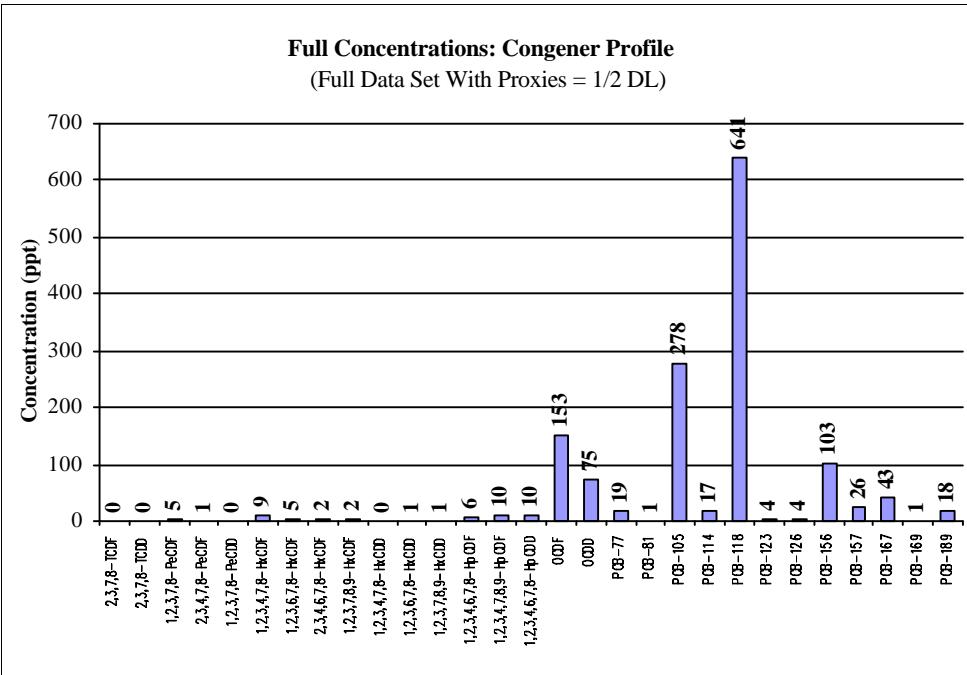
Sample 555



These results were used in congener pattern analysis.

Sample 497

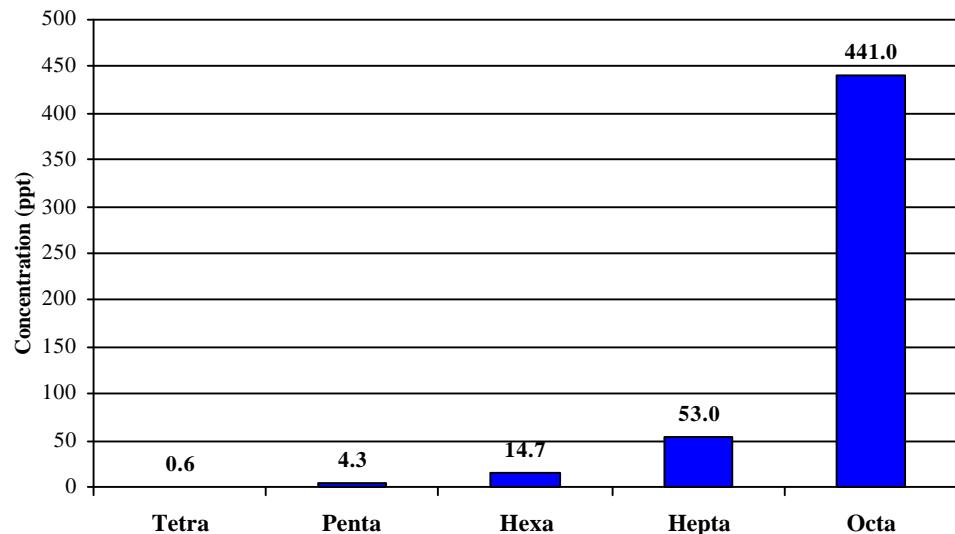
SP-9



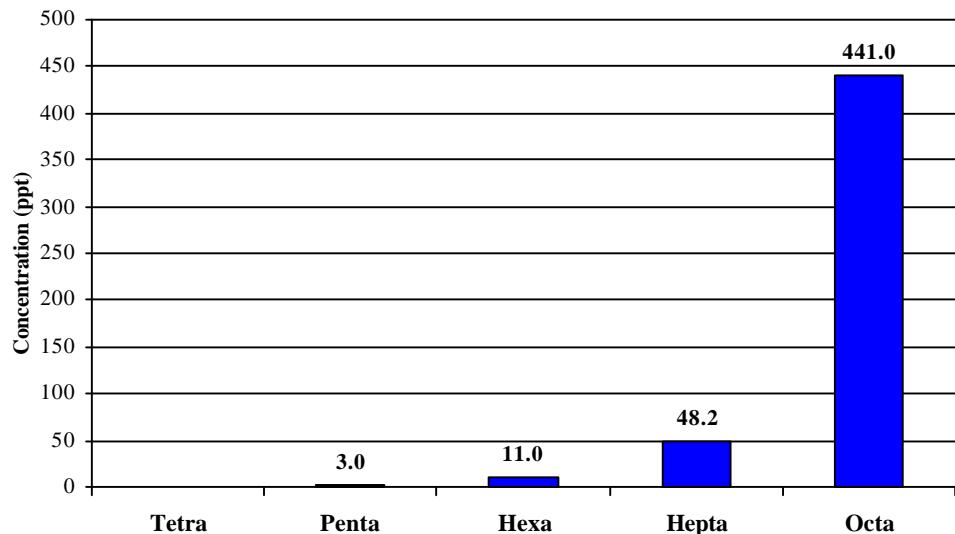
Sample 105

P-1

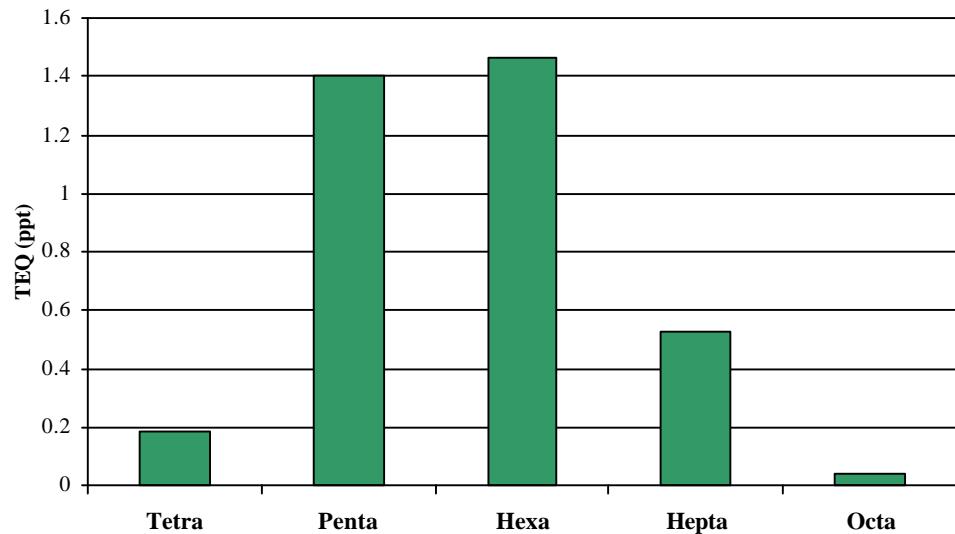
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



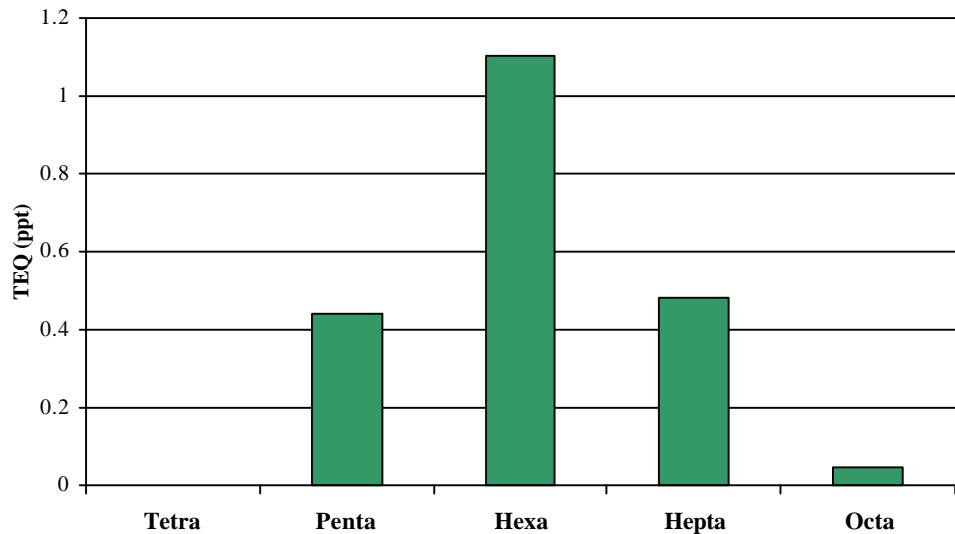
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)

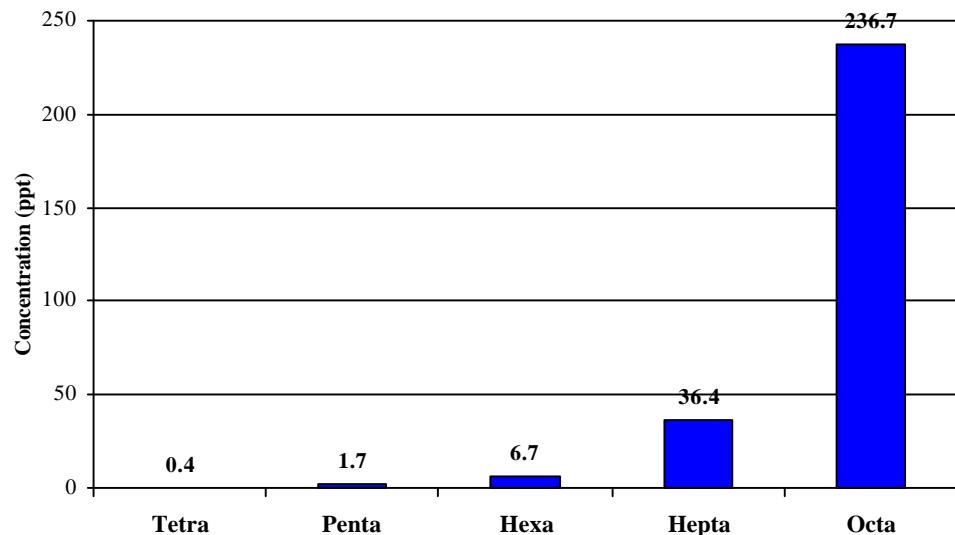


## Appendix B2. Homologue Profiles

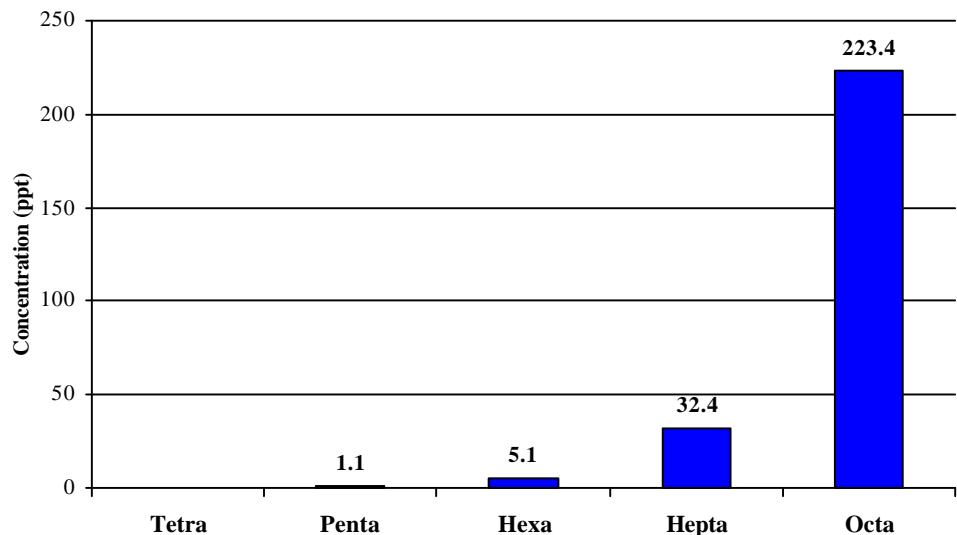
Sample 714

P-10

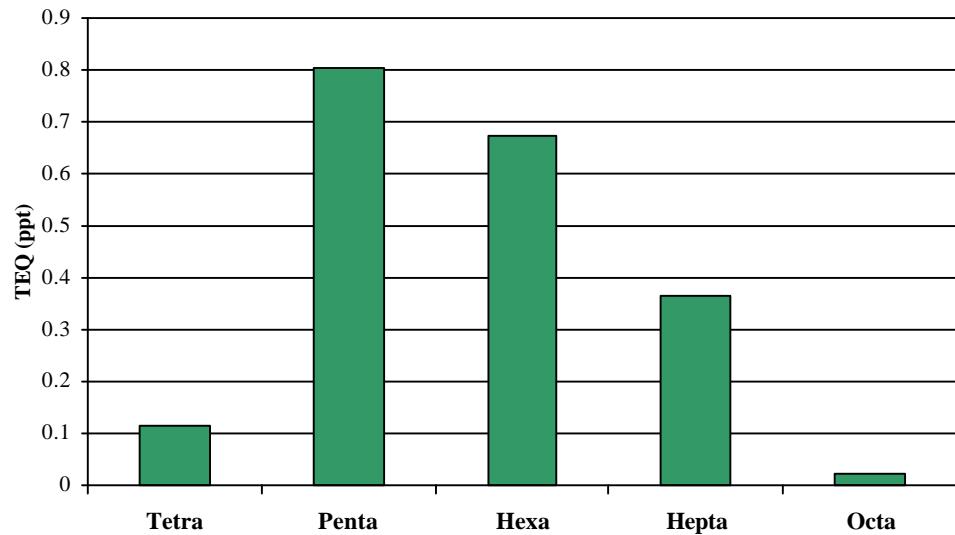
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



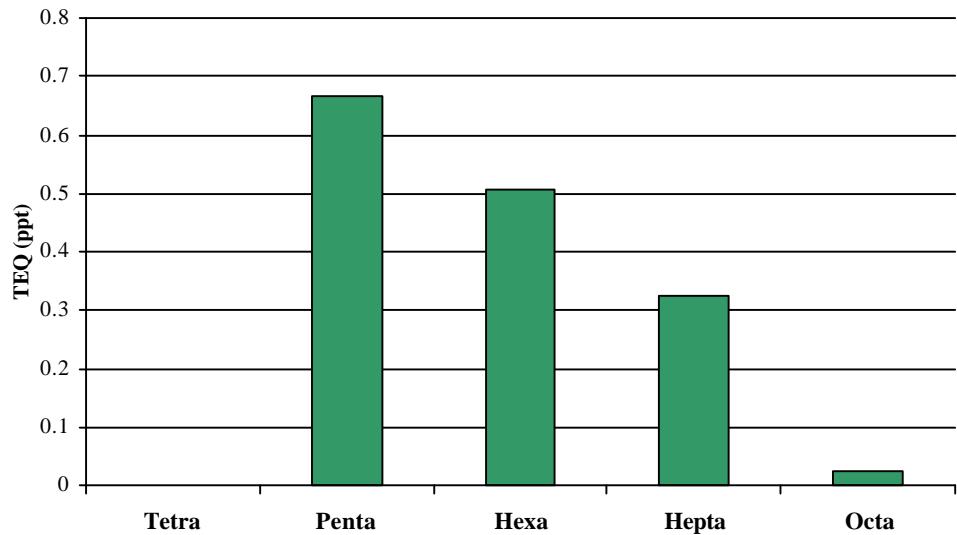
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



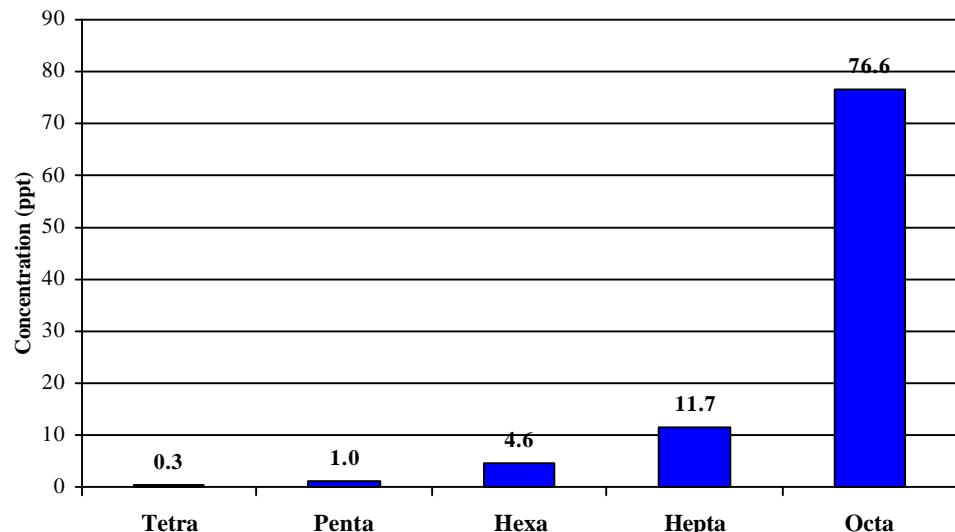
**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



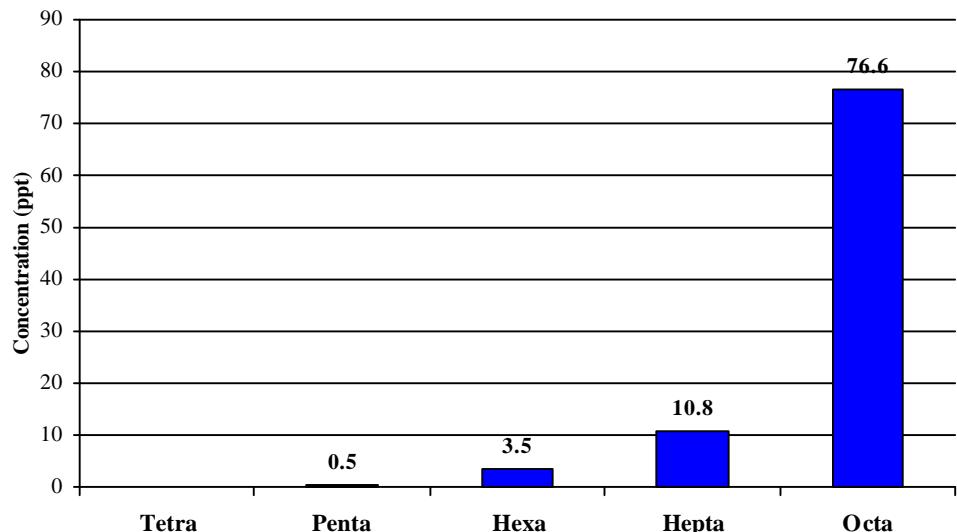
Sample 769

P-2

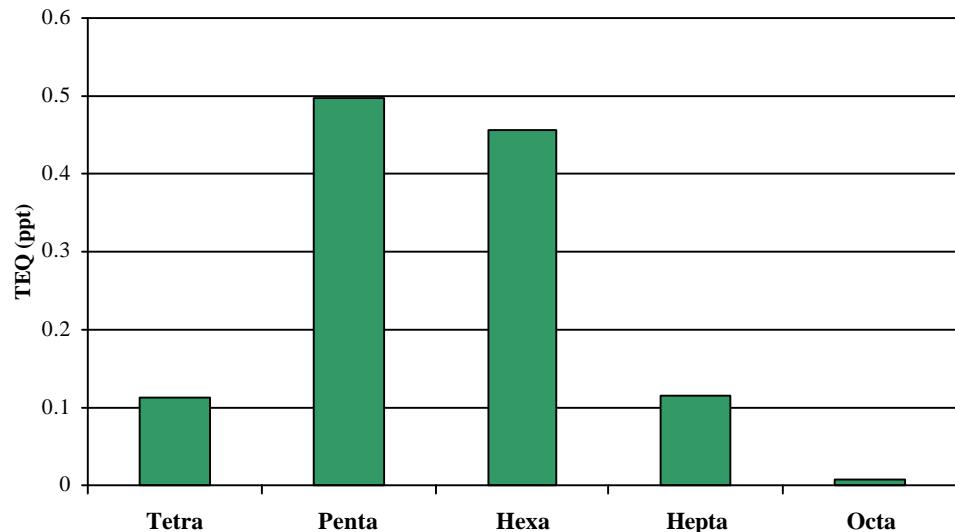
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



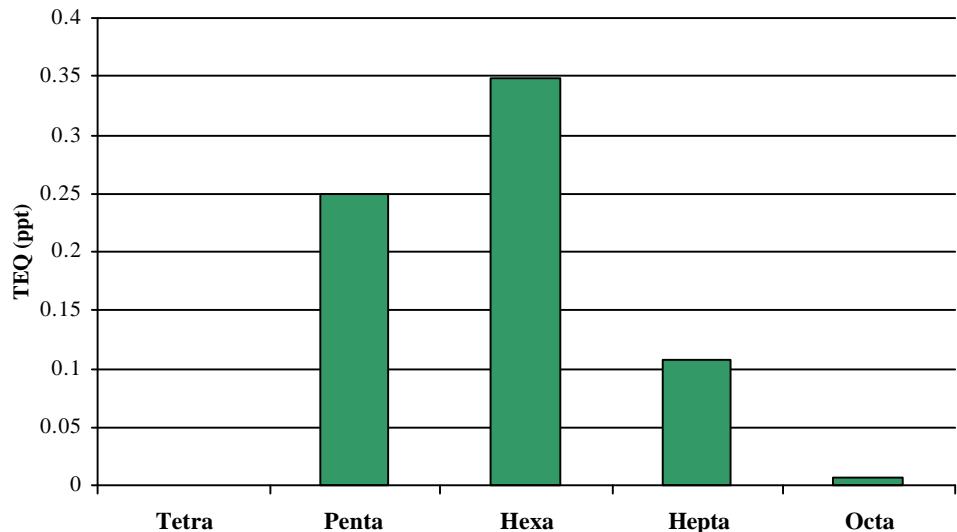
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)

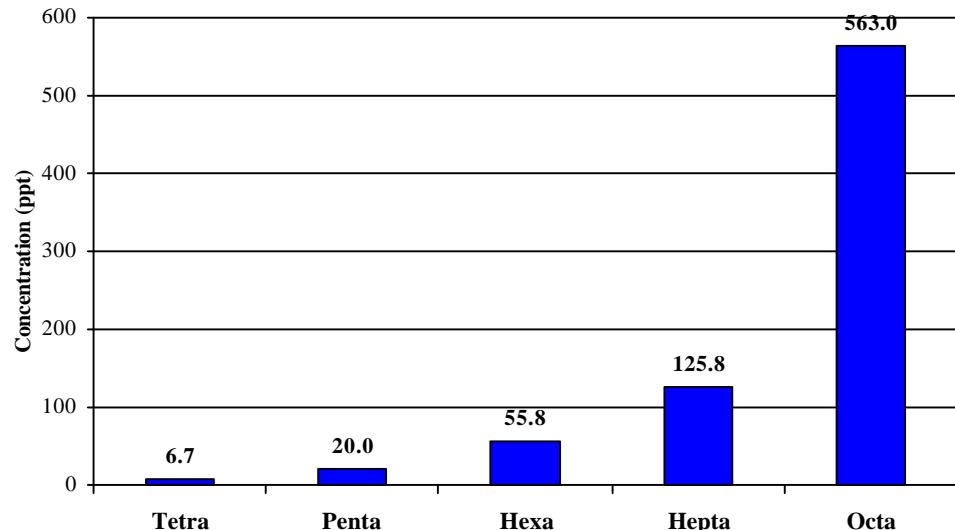


## Appendix B2. Homologue Profiles

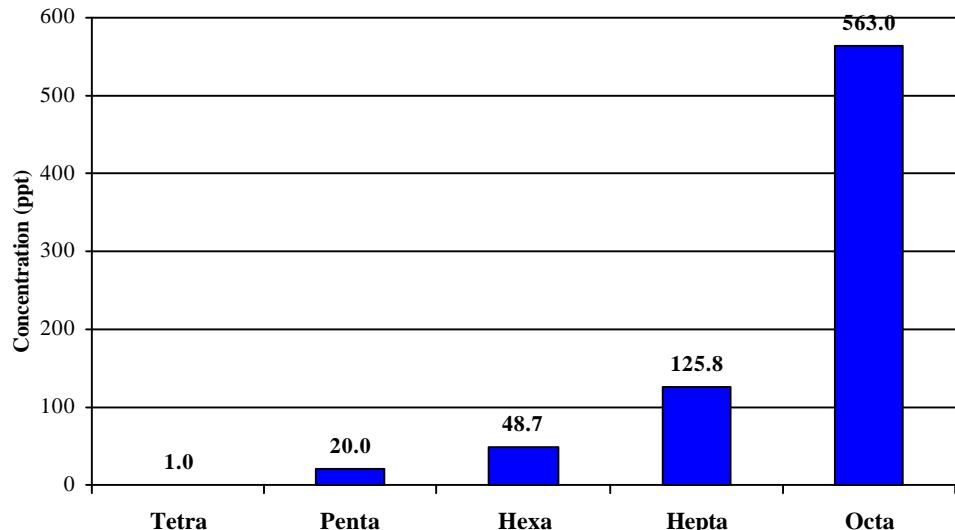
Sample 819

P-3

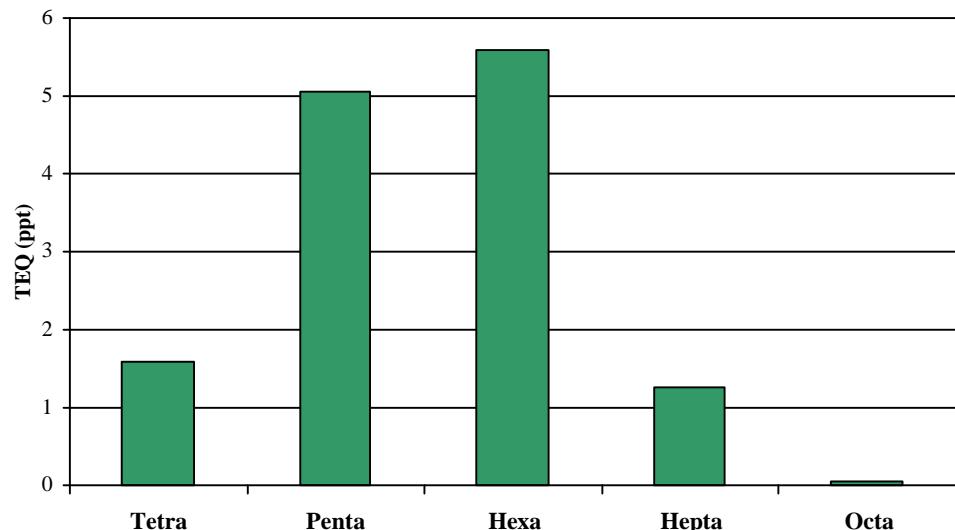
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



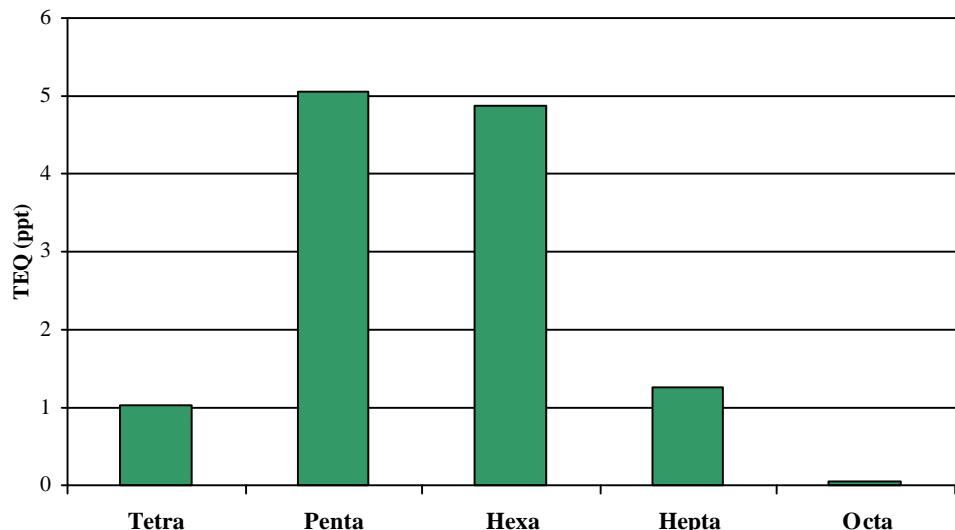
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



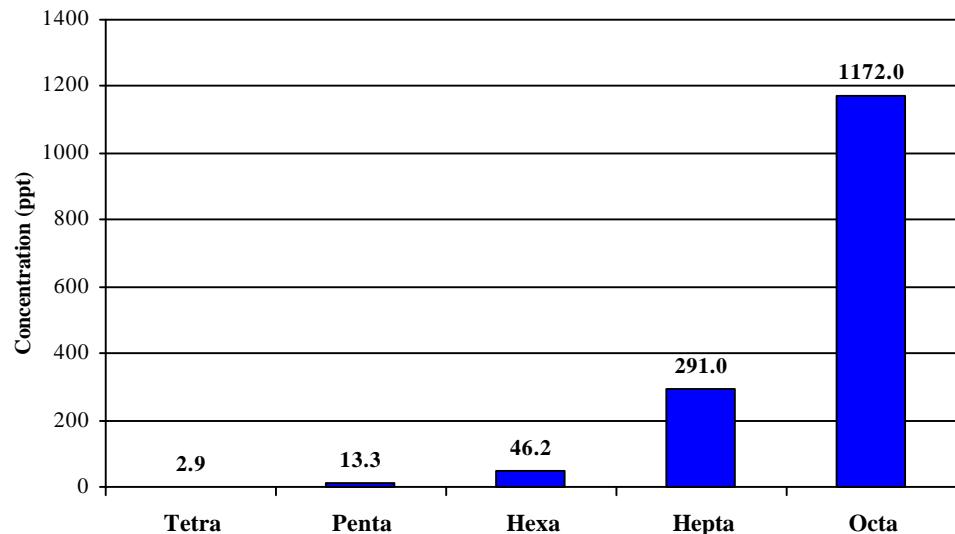
**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



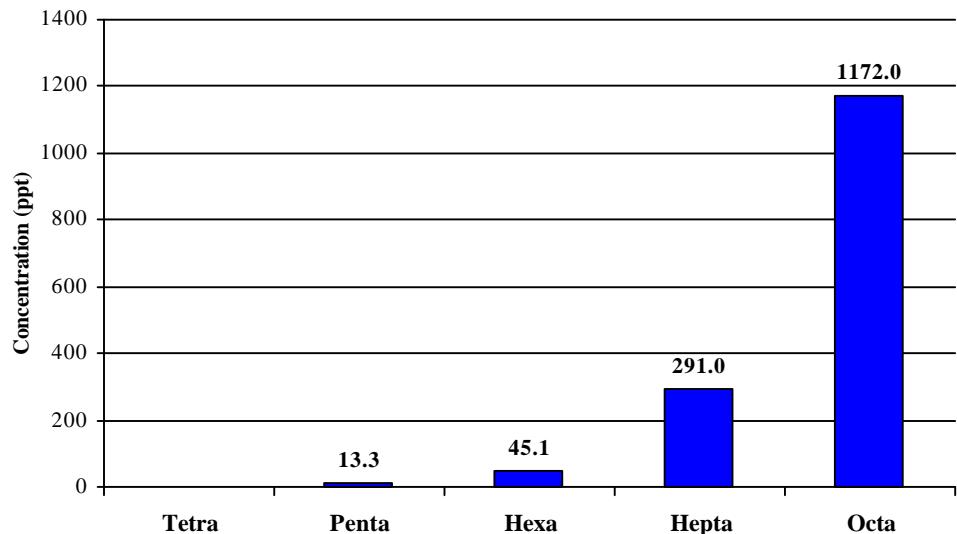
Sample 157

P-4

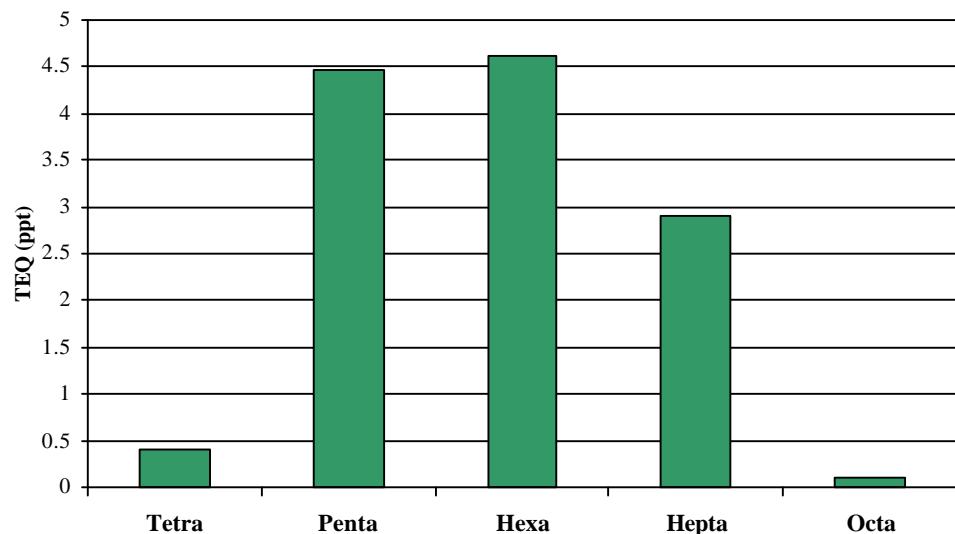
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



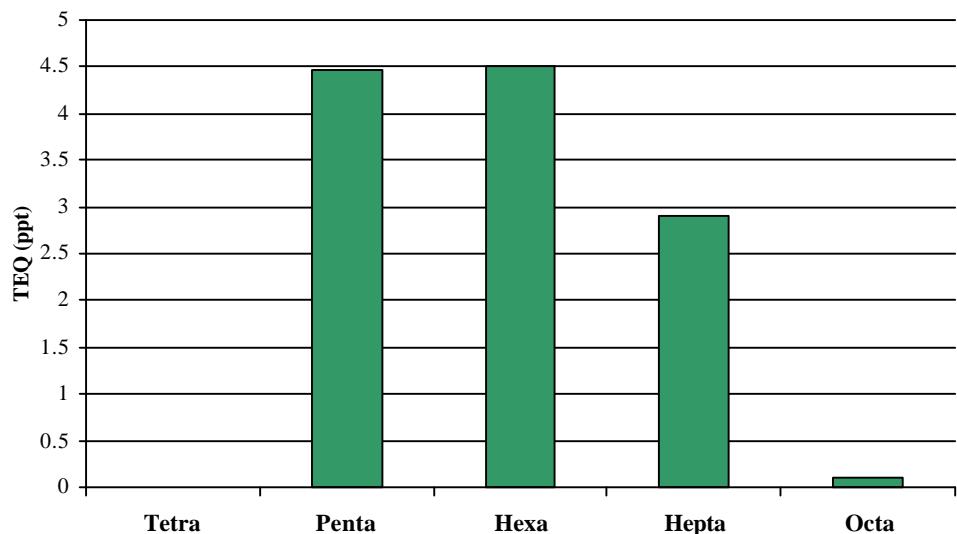
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



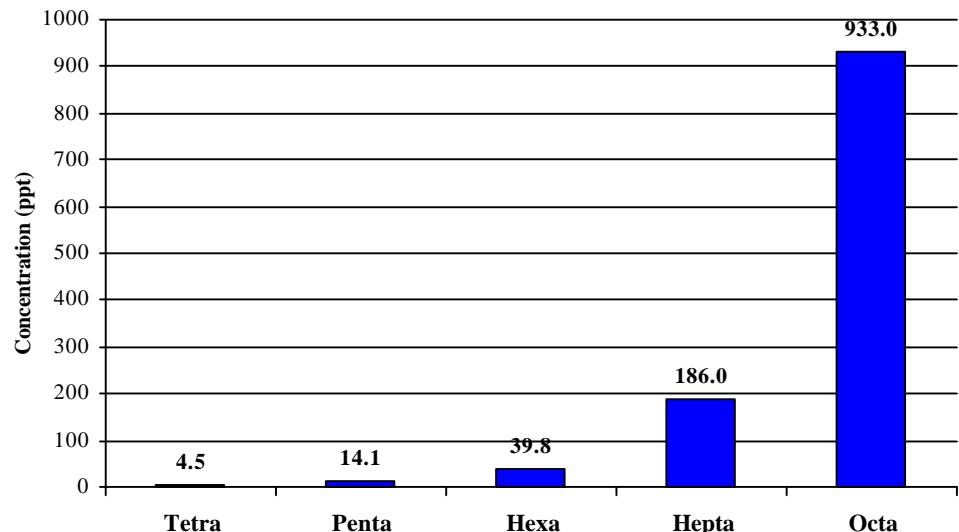
**Appendix B2. Homologue Profiles**

FINAL

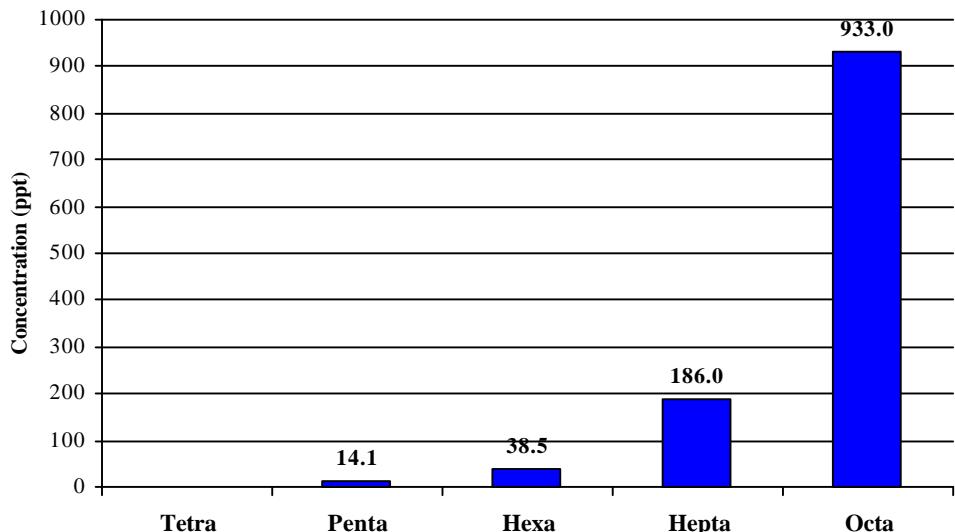
*Sample 273**P-5*

Replaced 'S' in result column with 10x the QL for PCB-118.

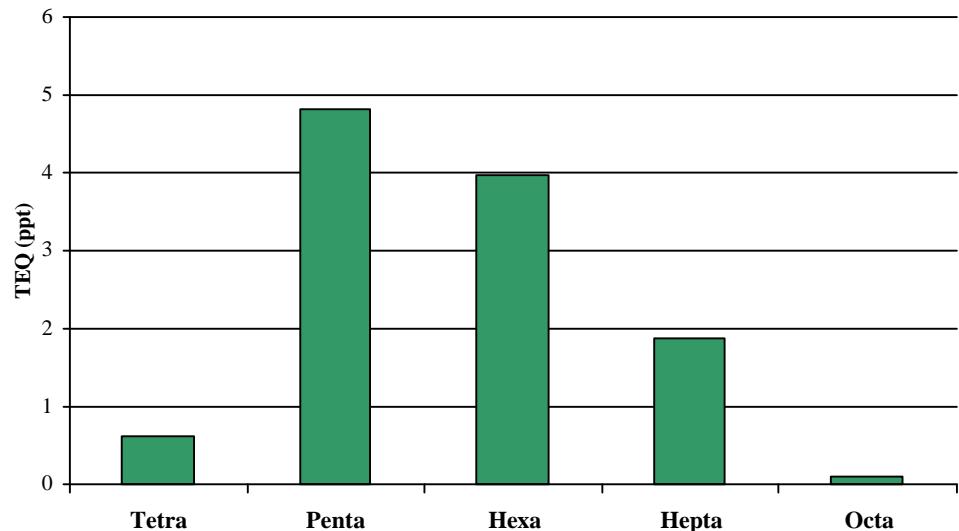
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



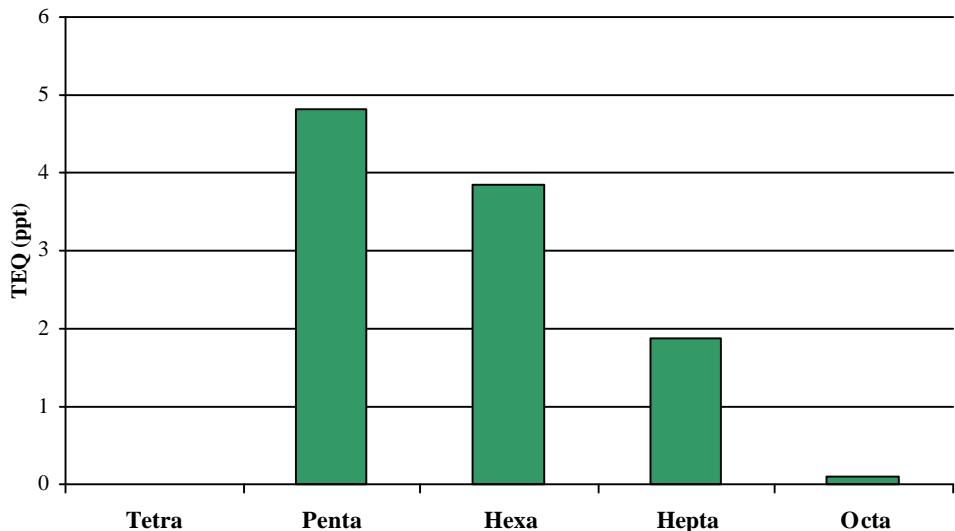
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



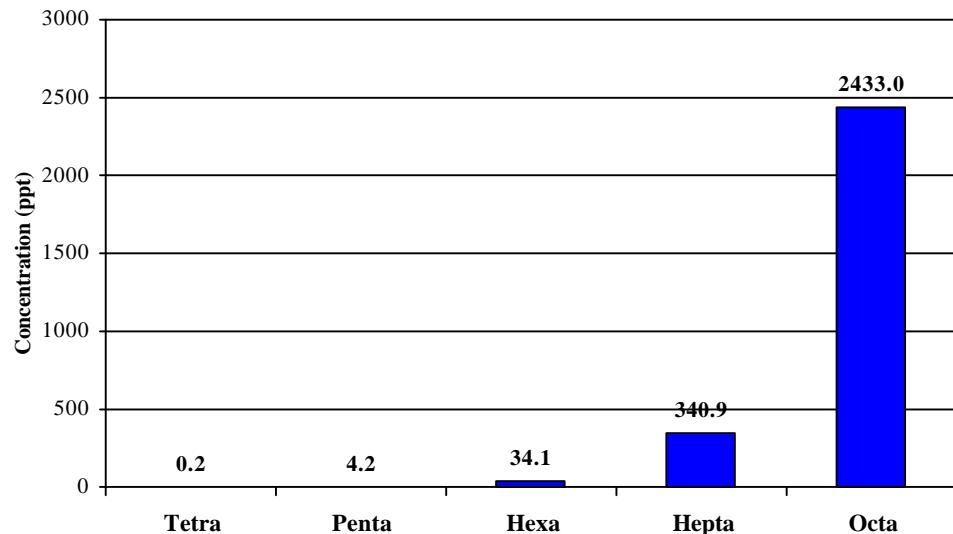
**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



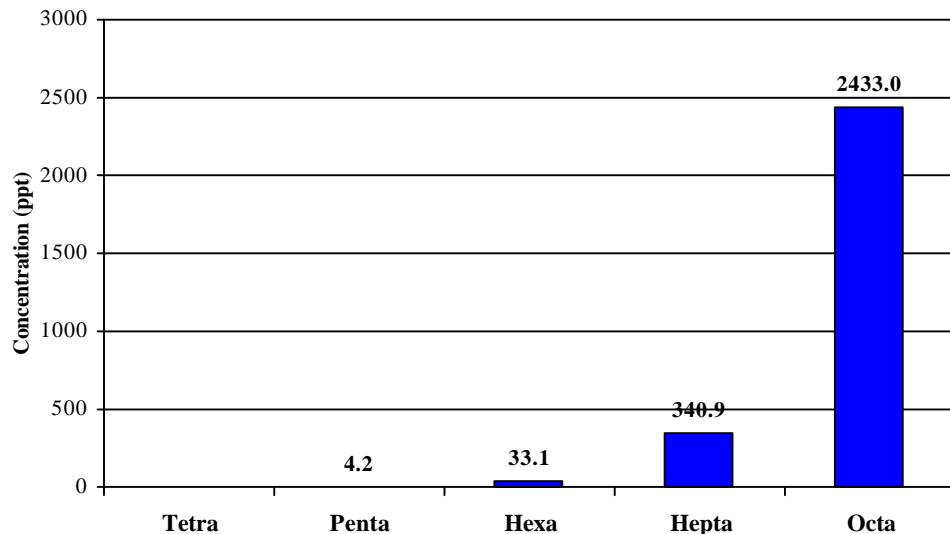
Sample 839

P-6

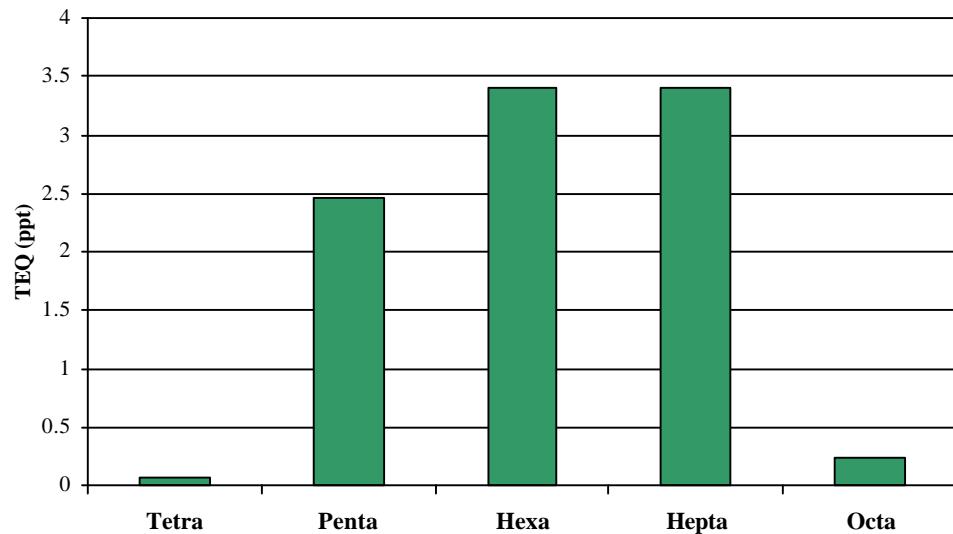
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



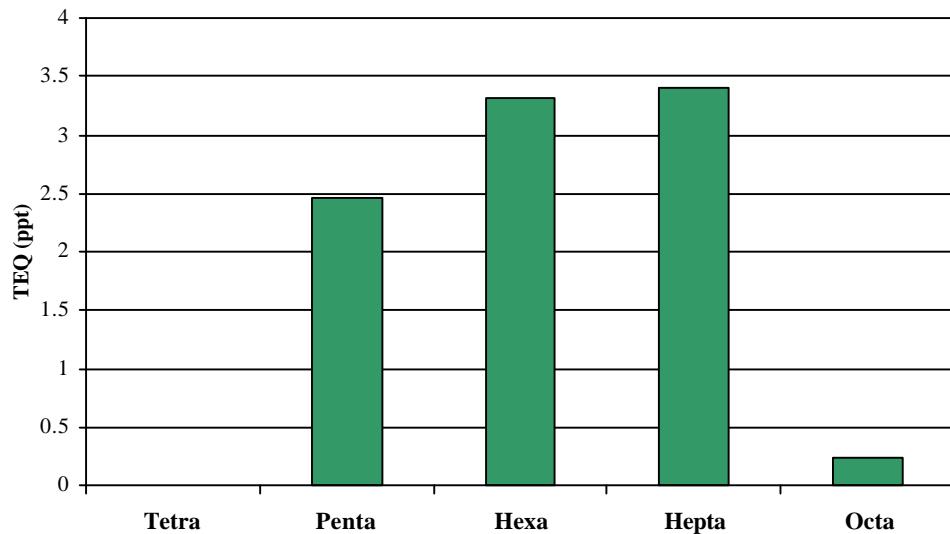
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



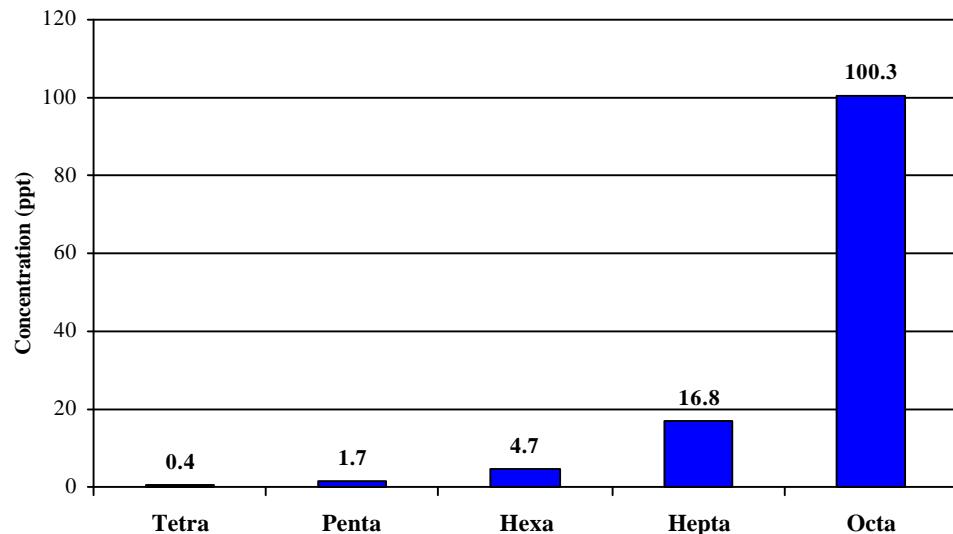
**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



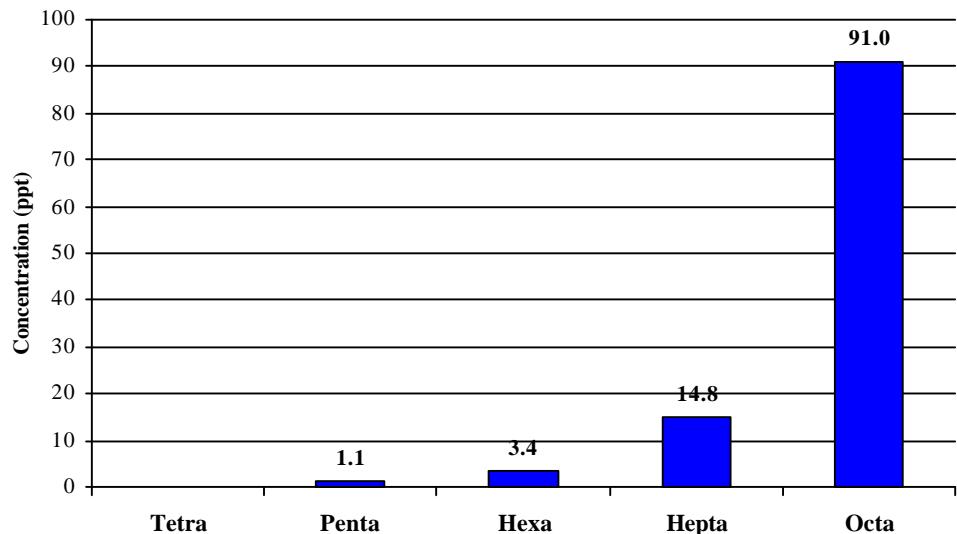
Sample 270

P-7

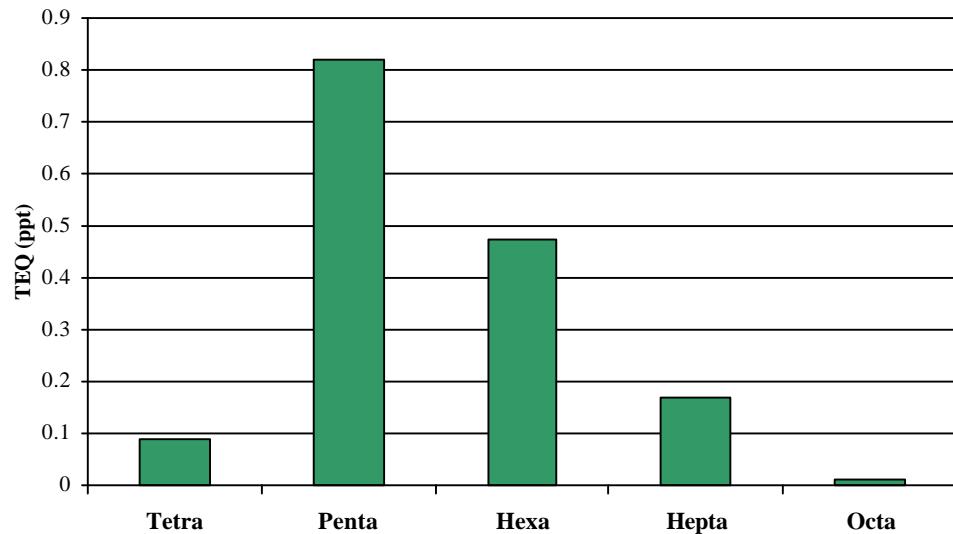
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



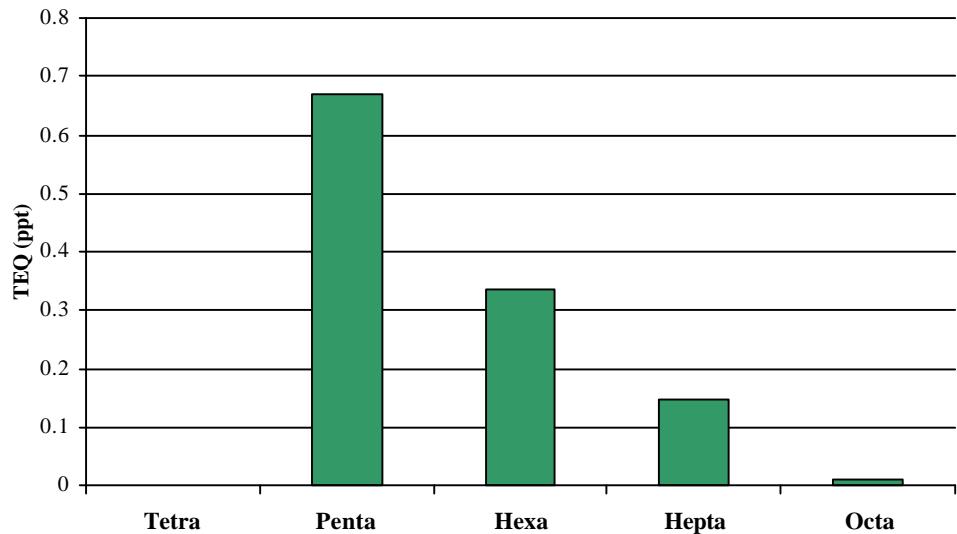
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



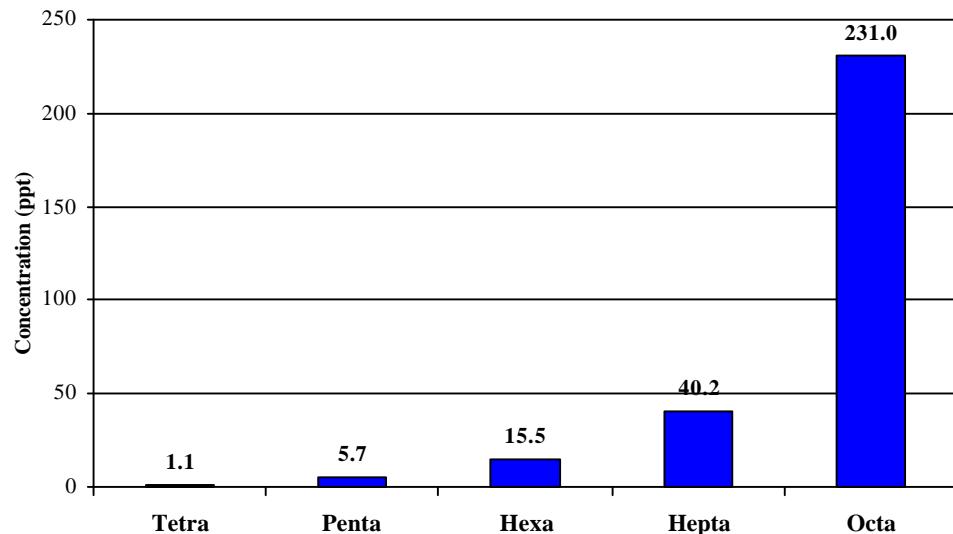
**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



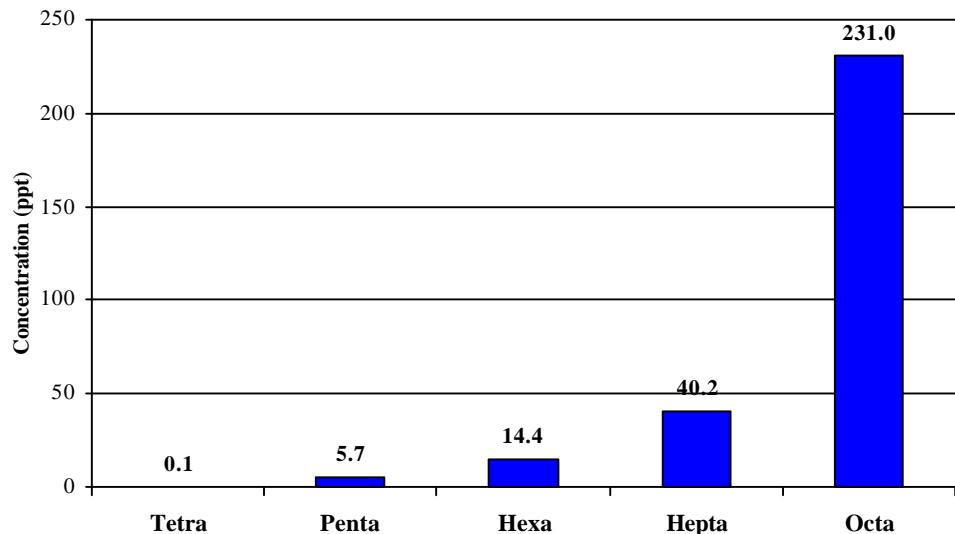
Sample 237

P-8

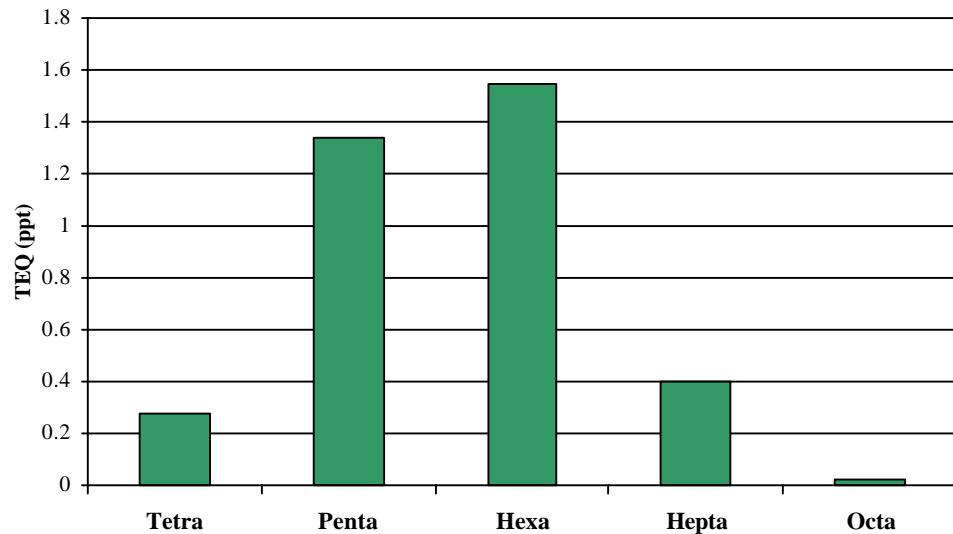
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



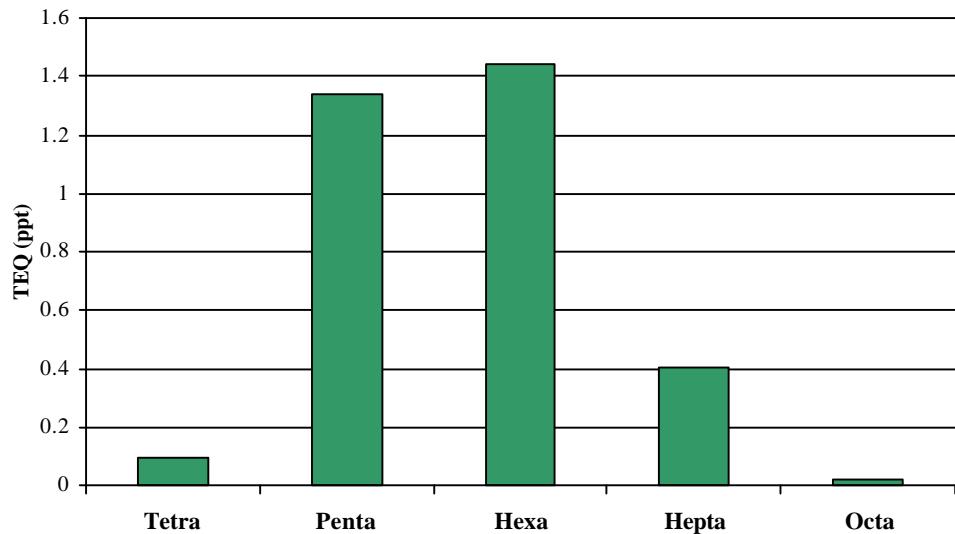
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



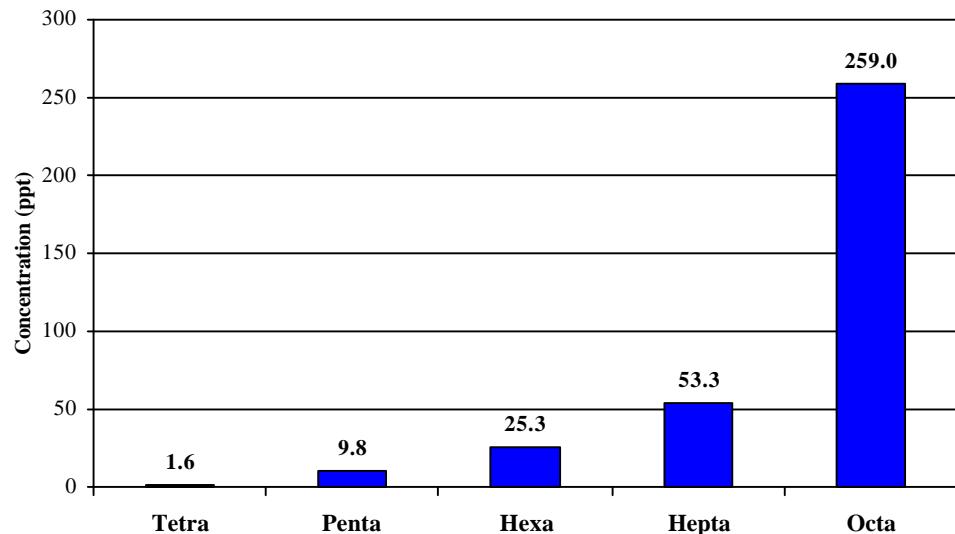
**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



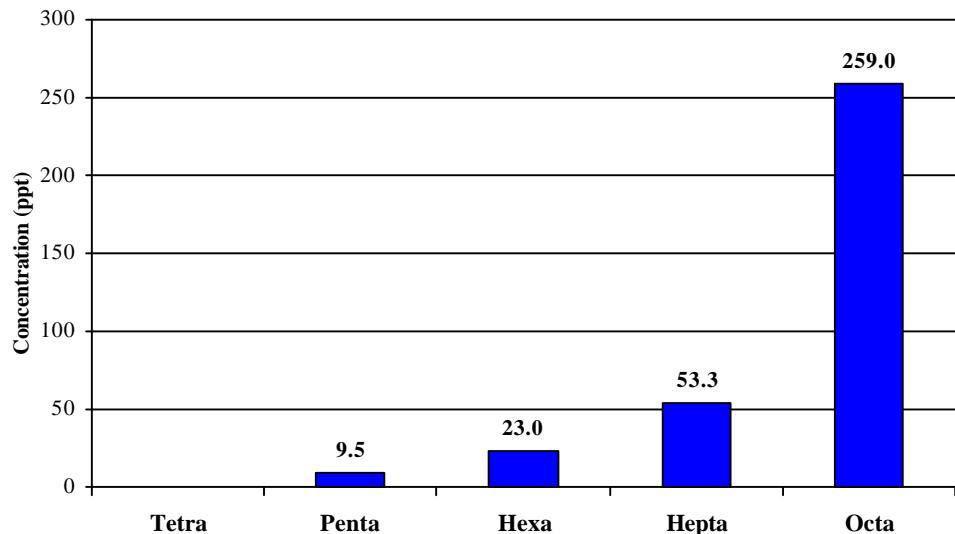
Sample 404

P-9

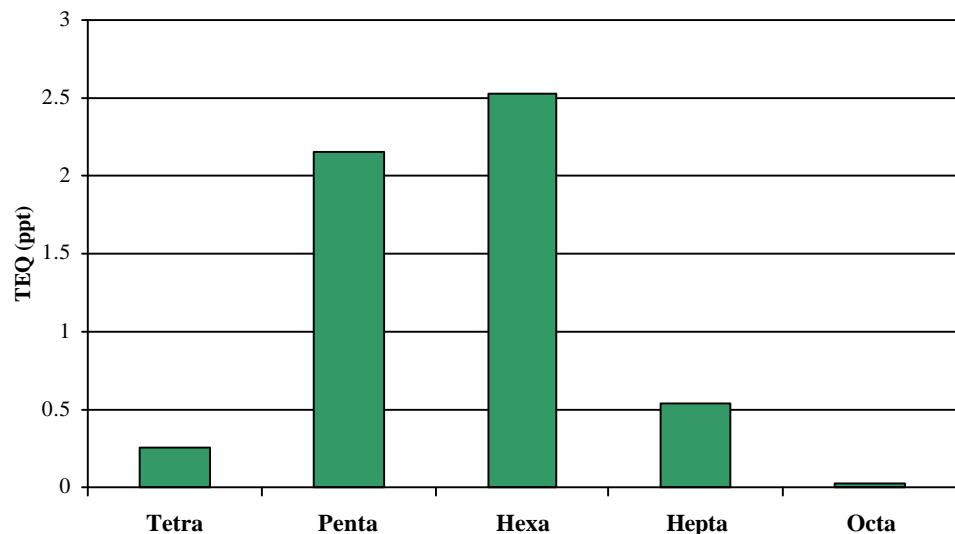
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



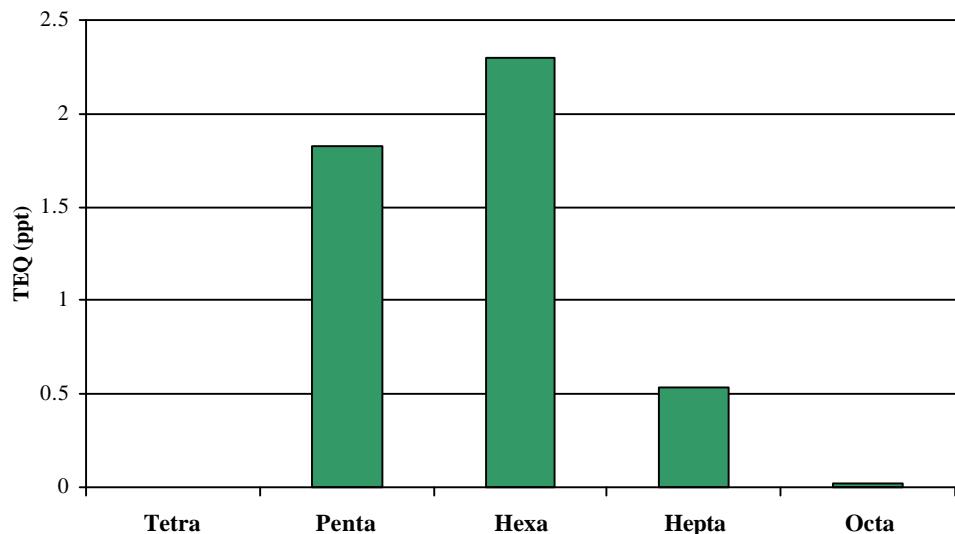
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



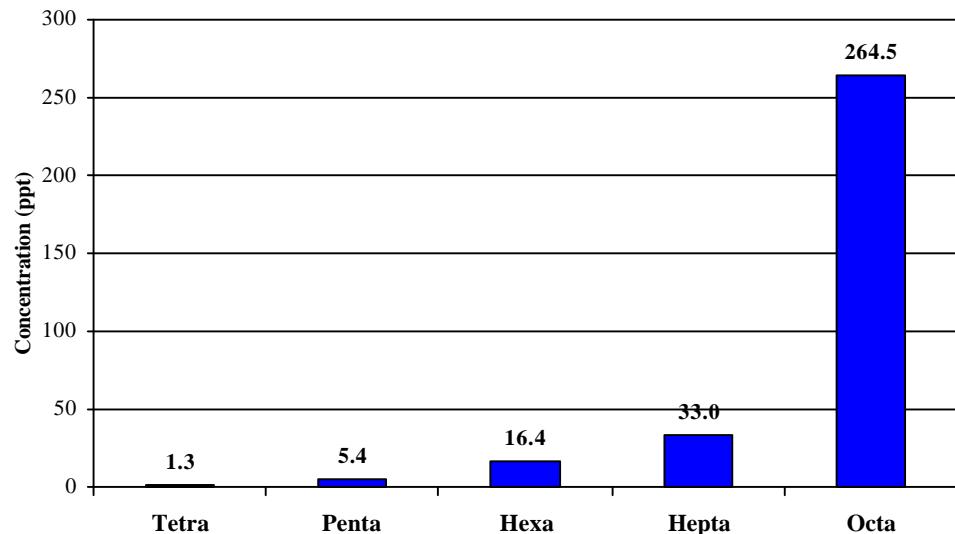
**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



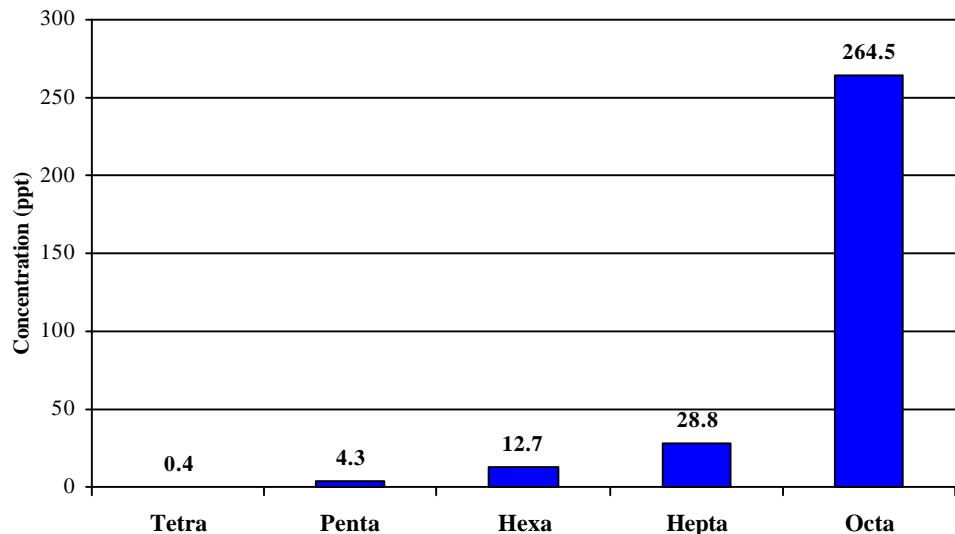
Sample 299

SP-1

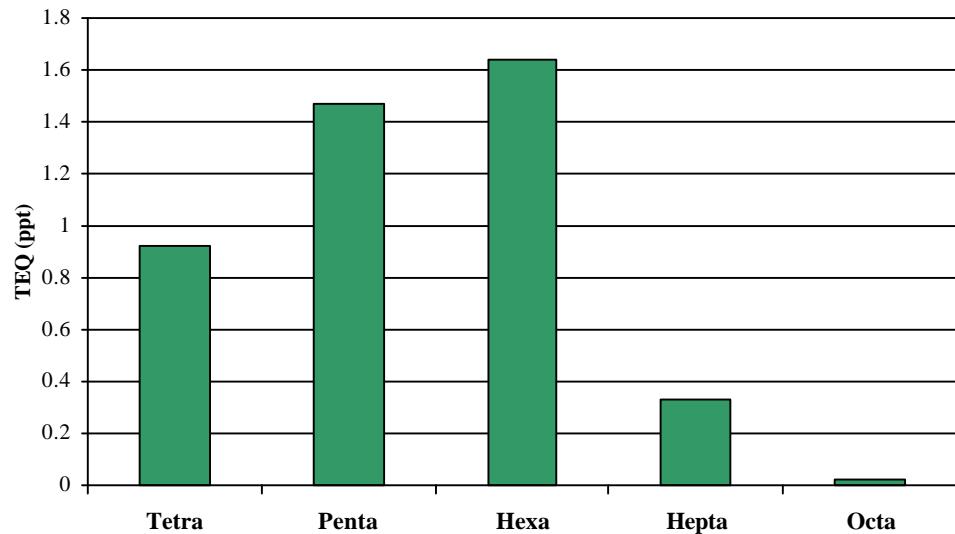
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



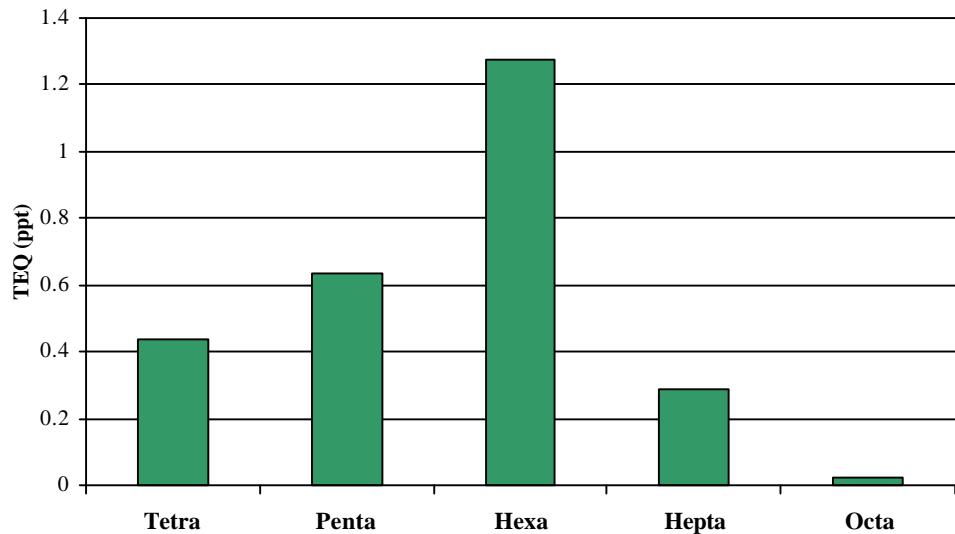
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



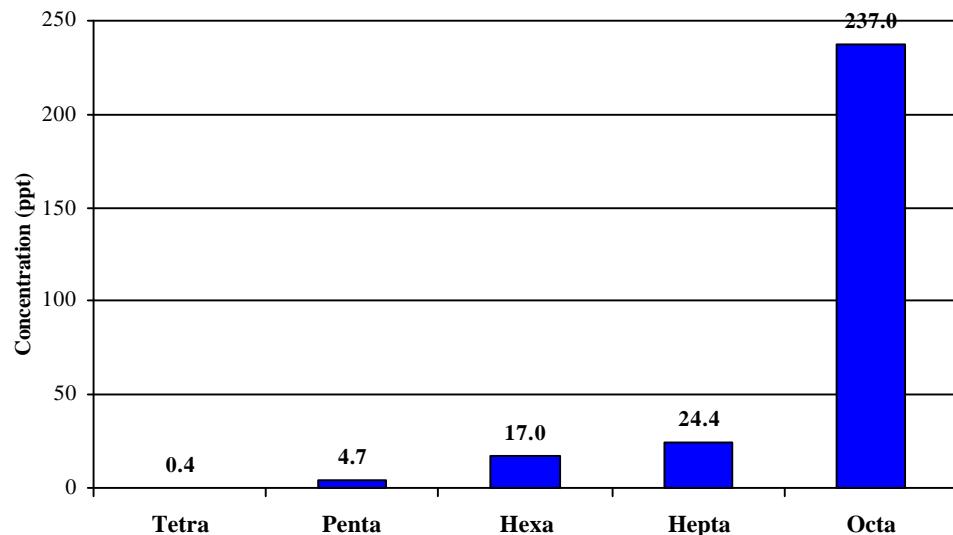
**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



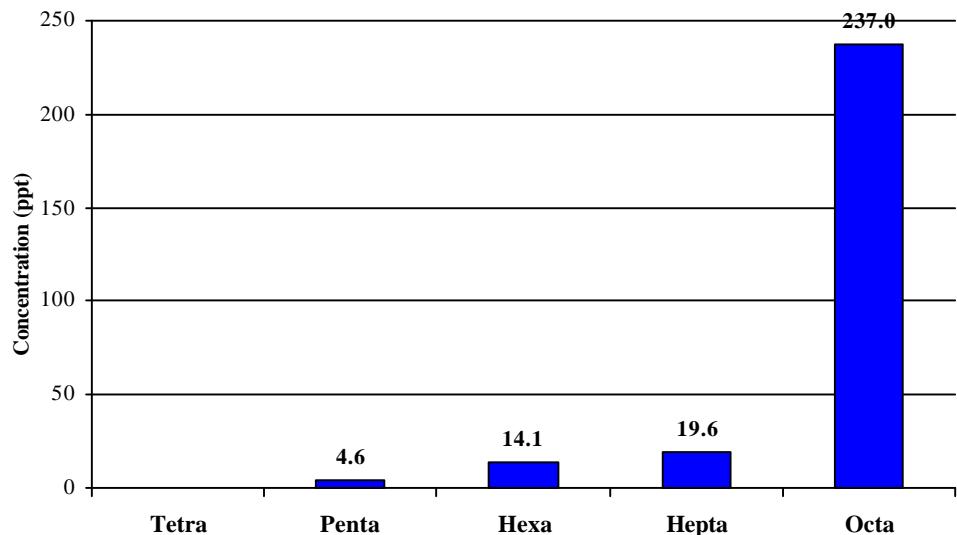
Sample 571

SP-10

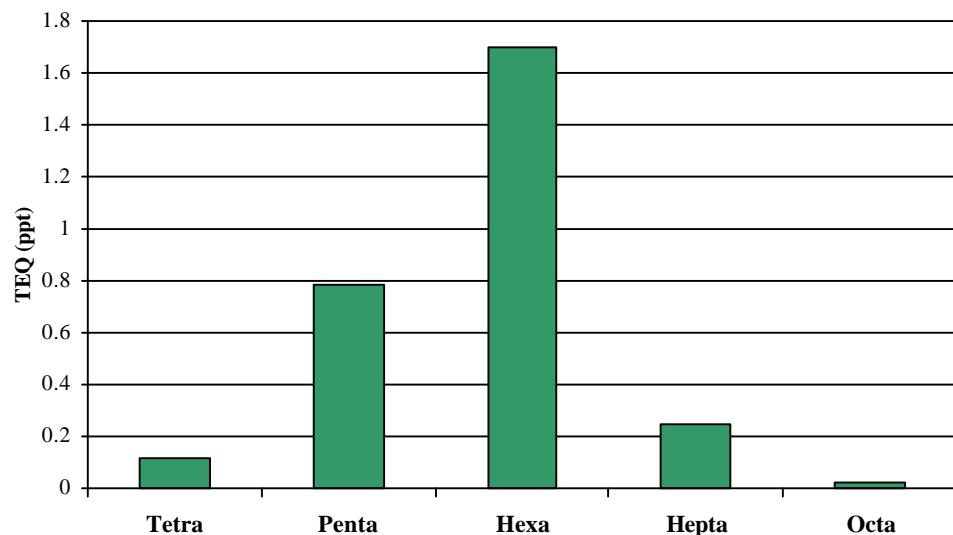
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



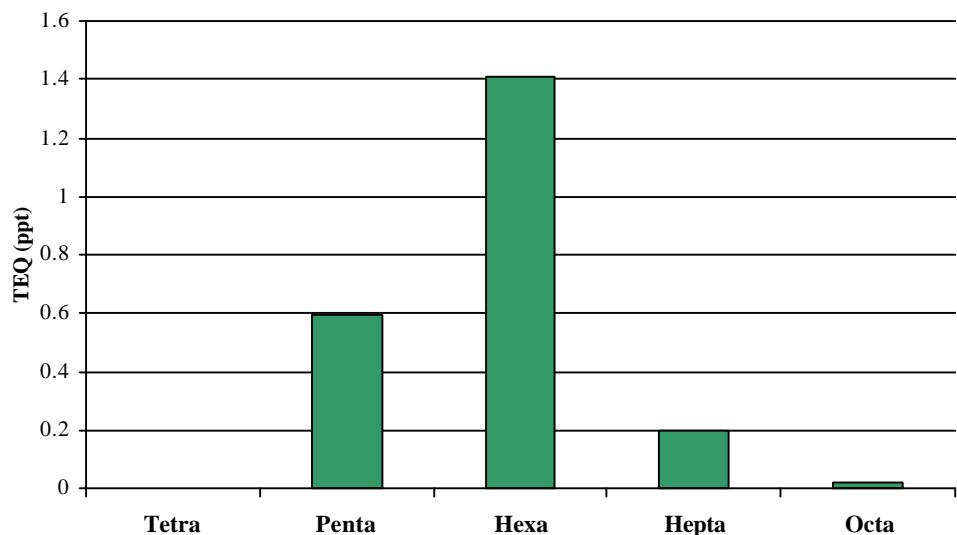
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



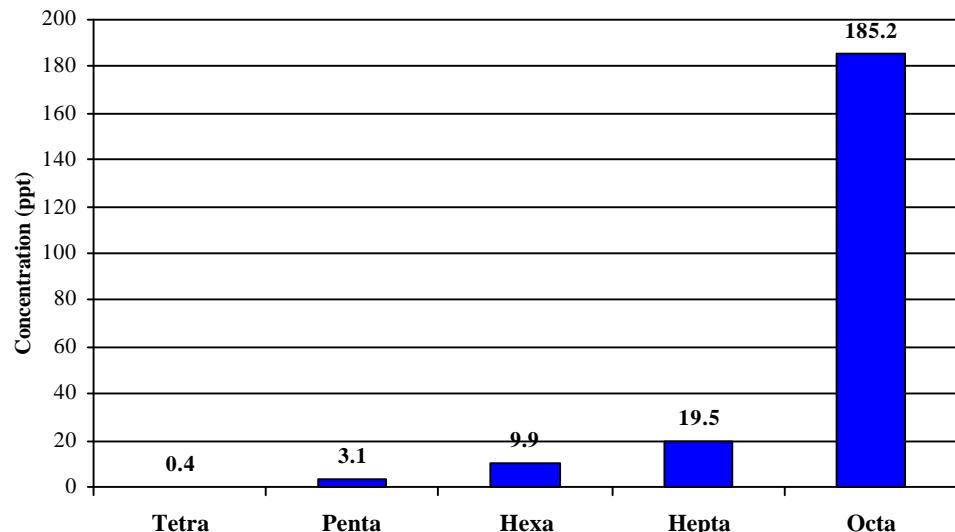
**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



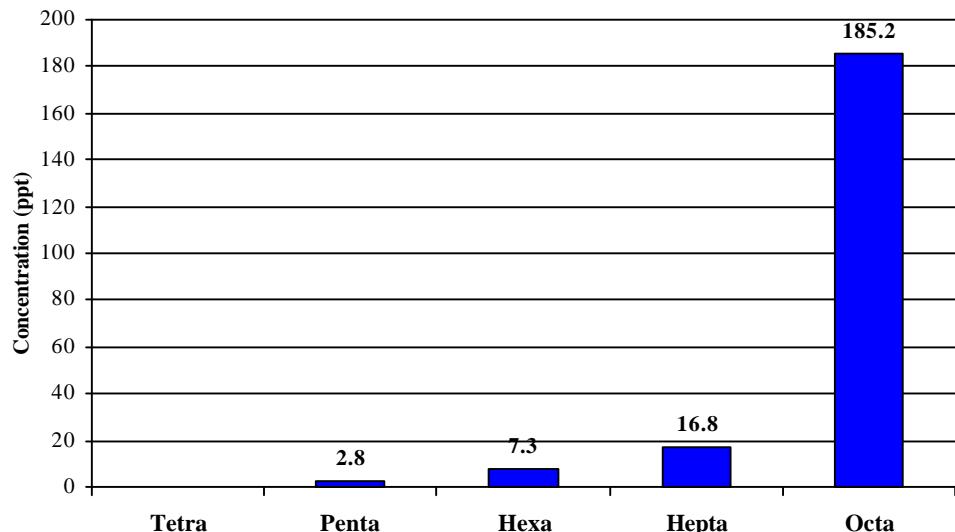
Sample 461

SP-11

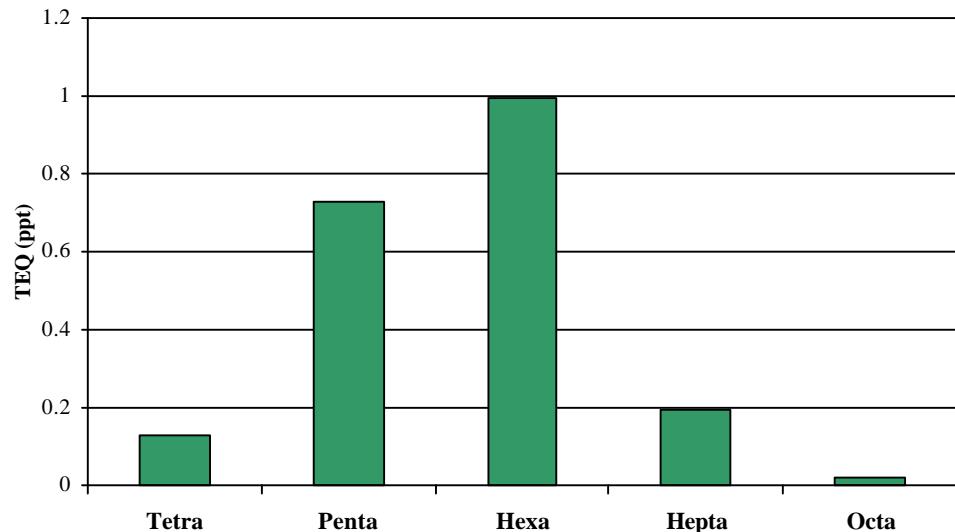
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



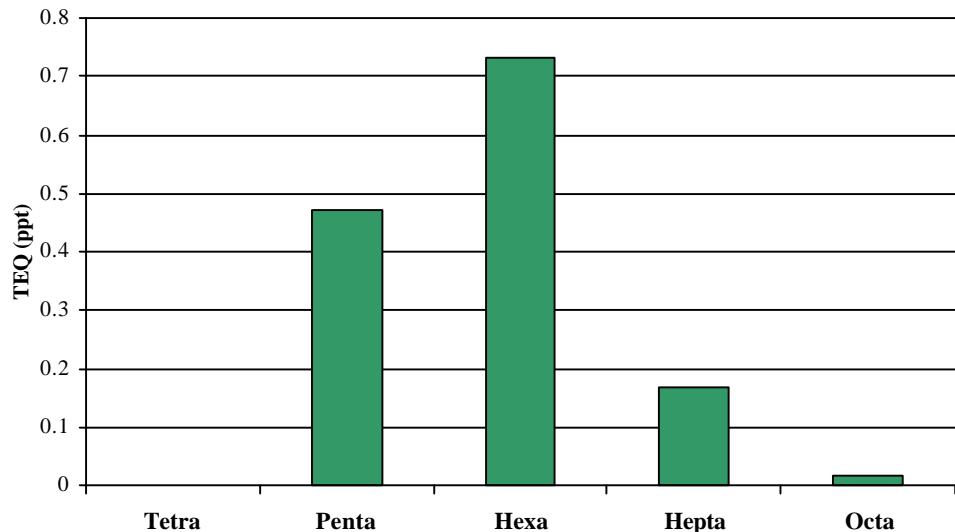
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)

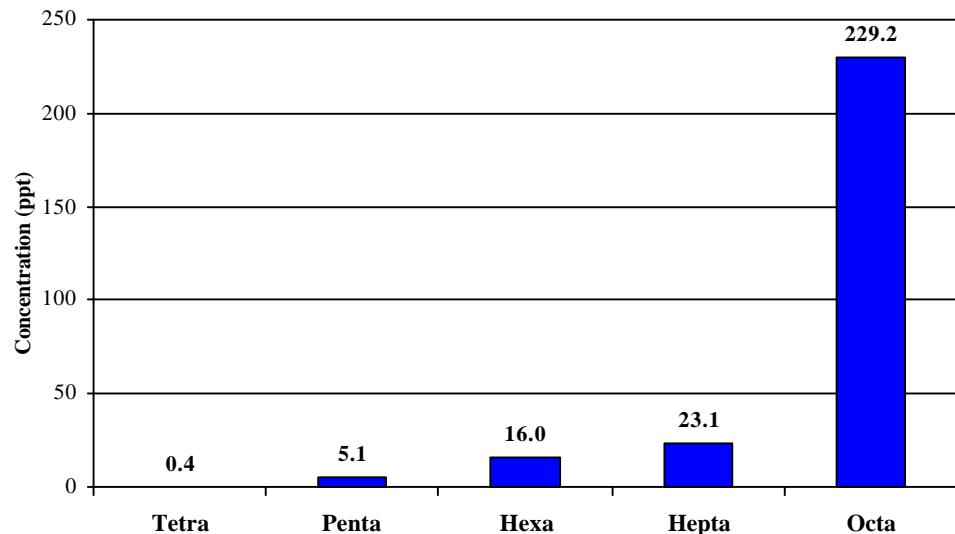


## Appendix B2. Homologue Profiles

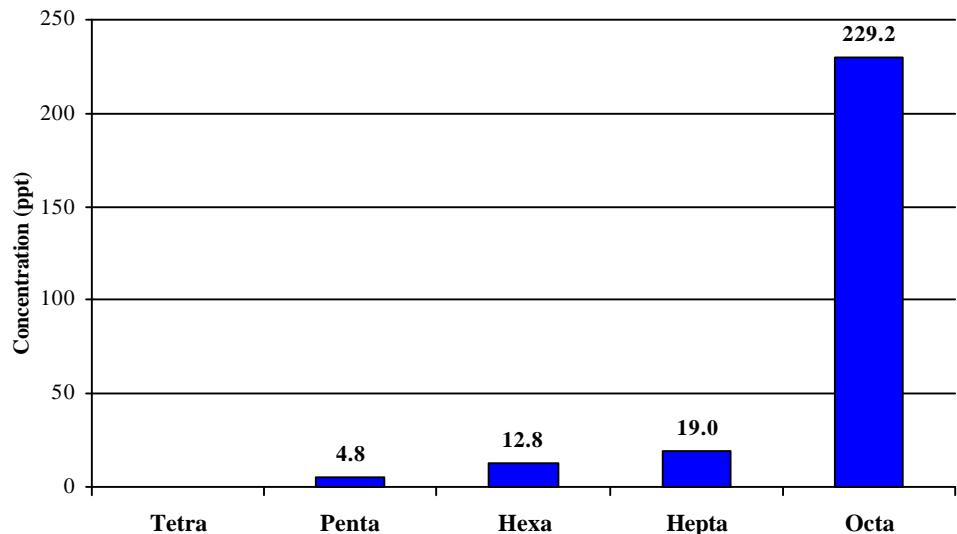
Sample 692

SP-12

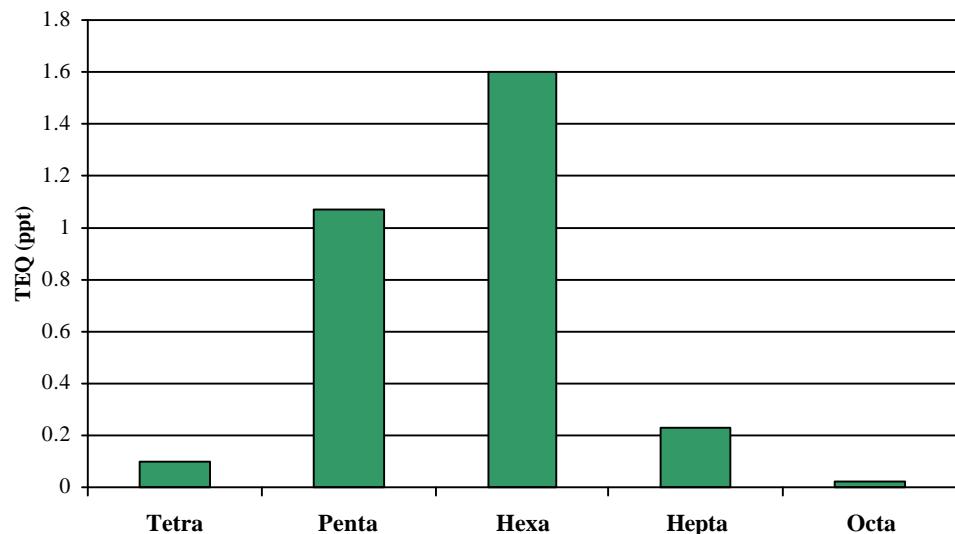
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



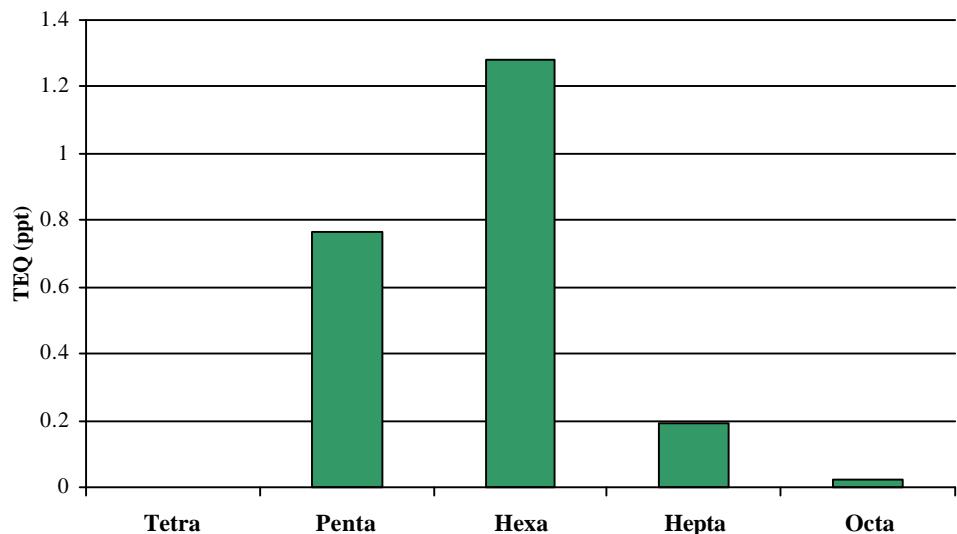
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



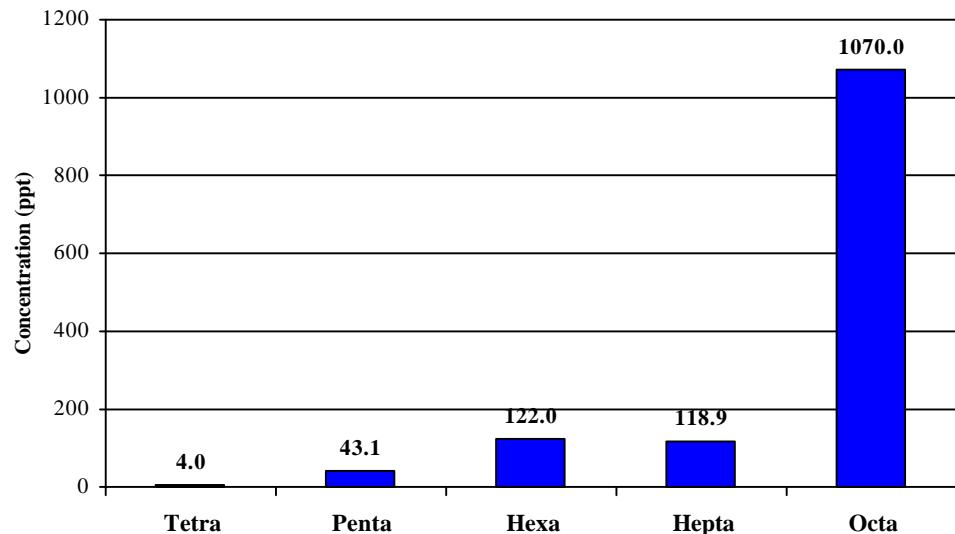
**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



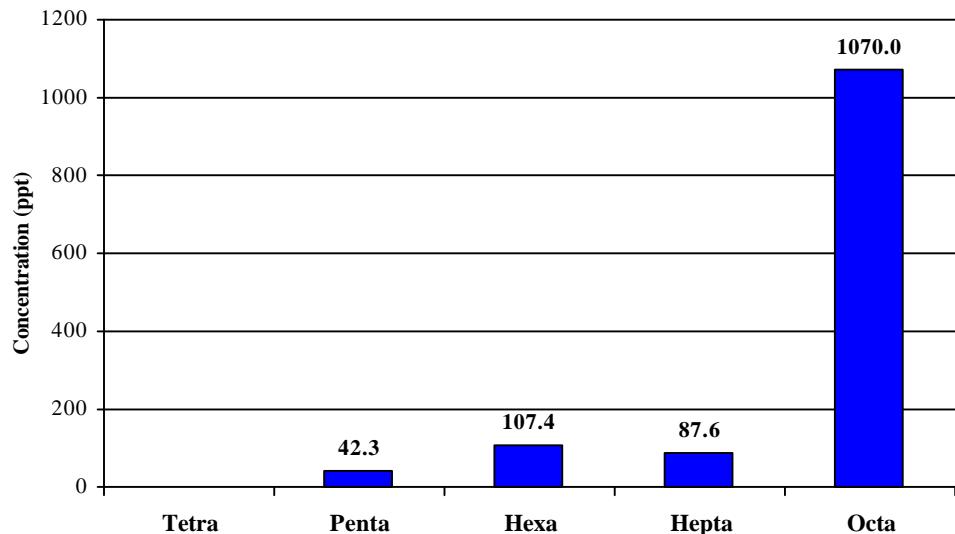
Sample 515

SP-2

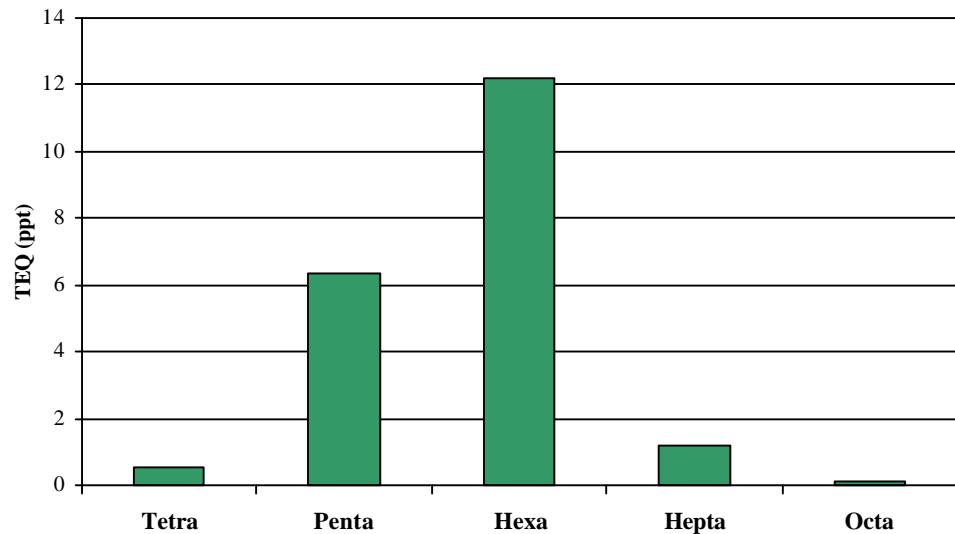
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



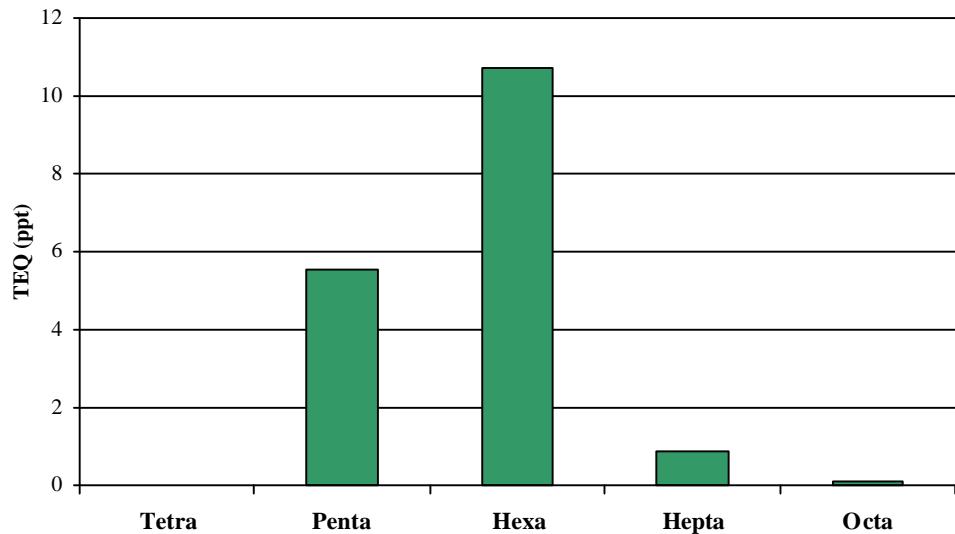
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



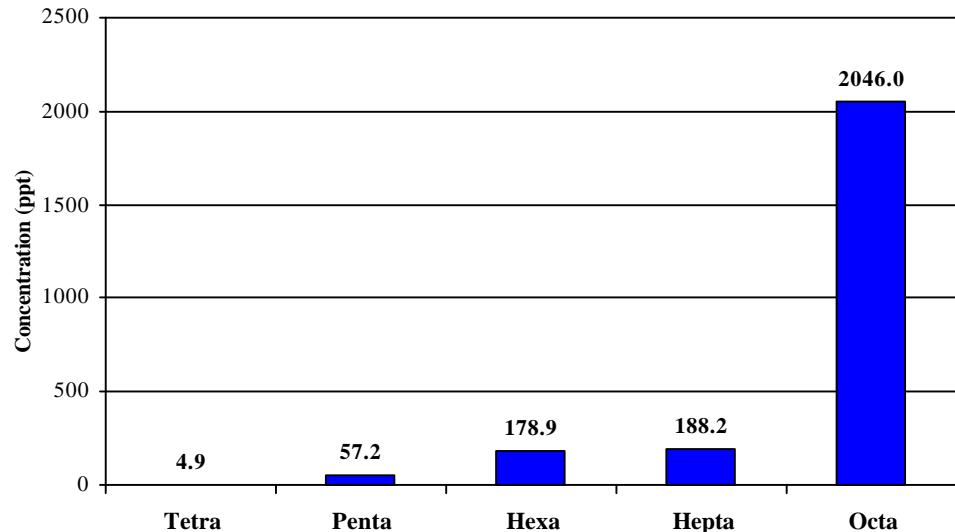
**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



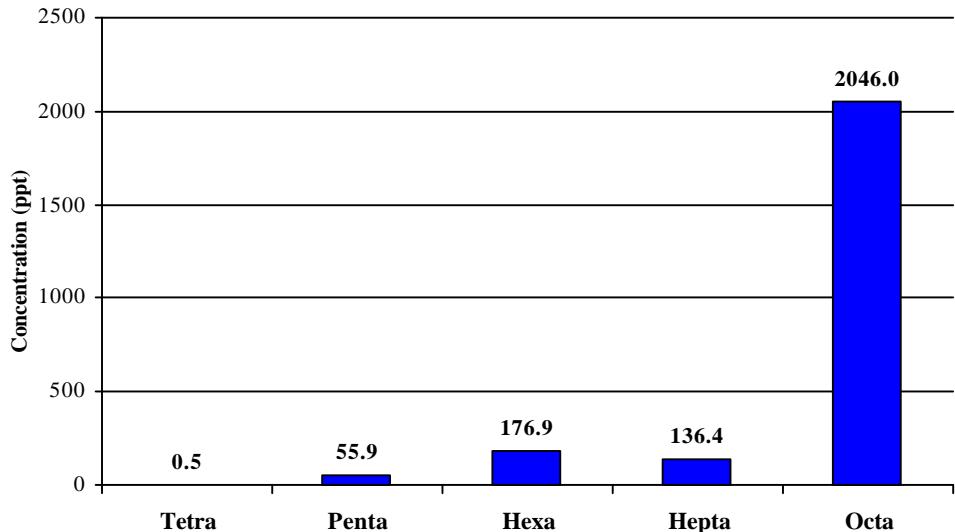
Sample 282

SP-3

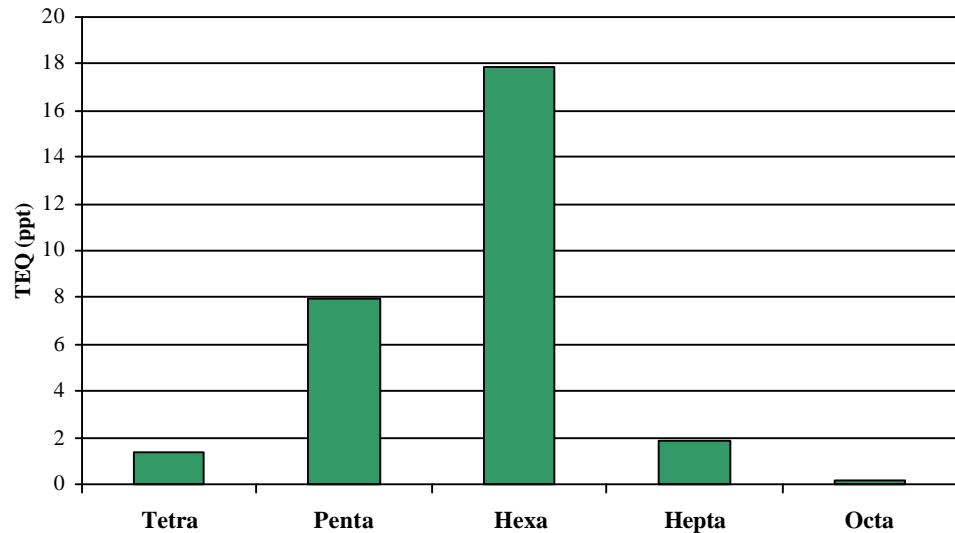
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



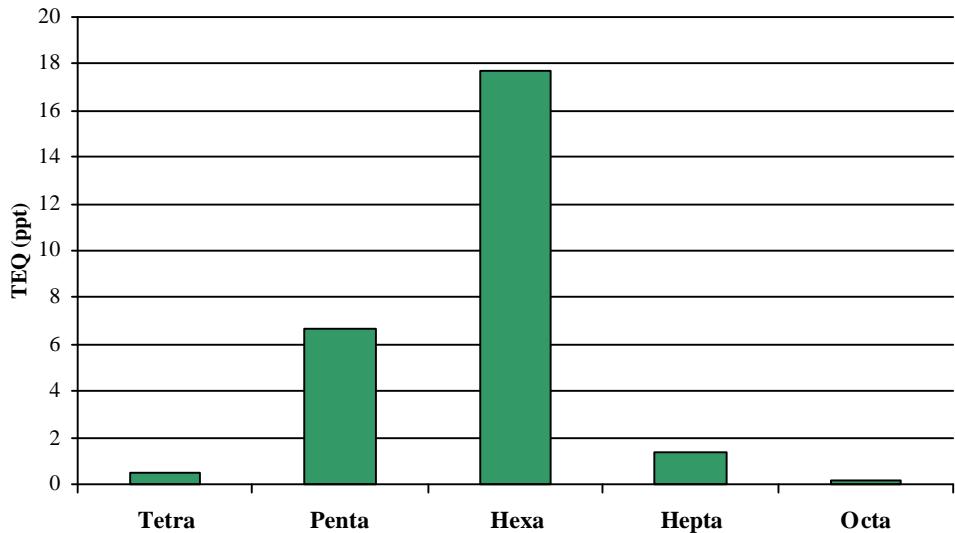
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



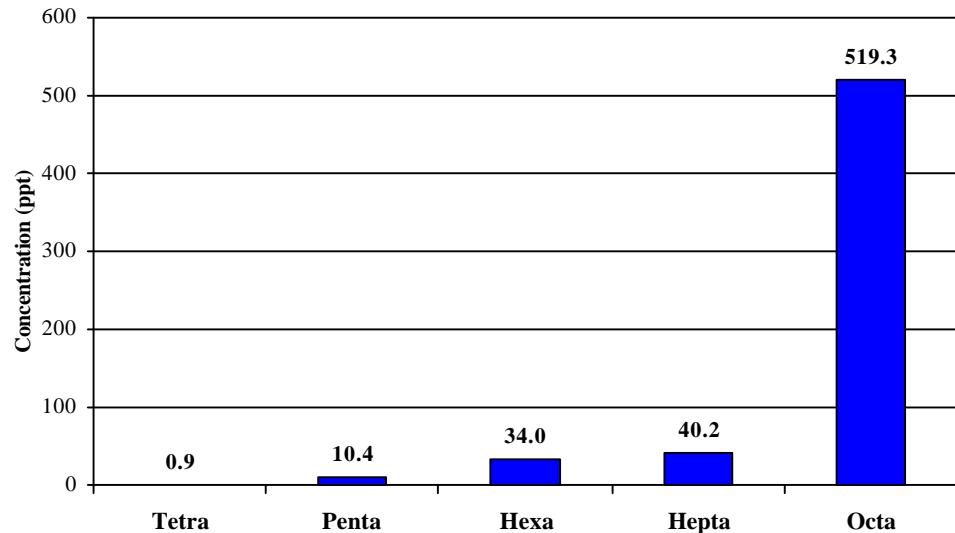
**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



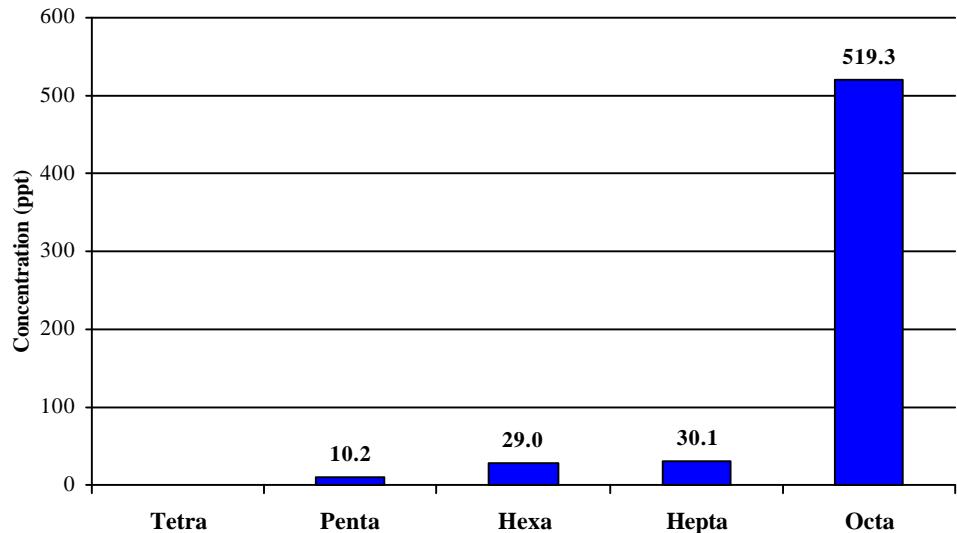
Sample 909

SP-4

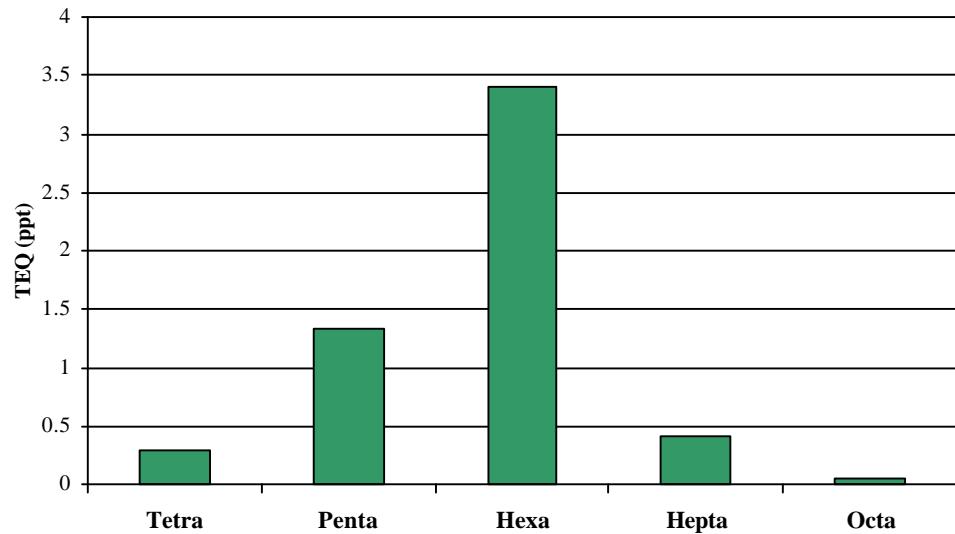
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



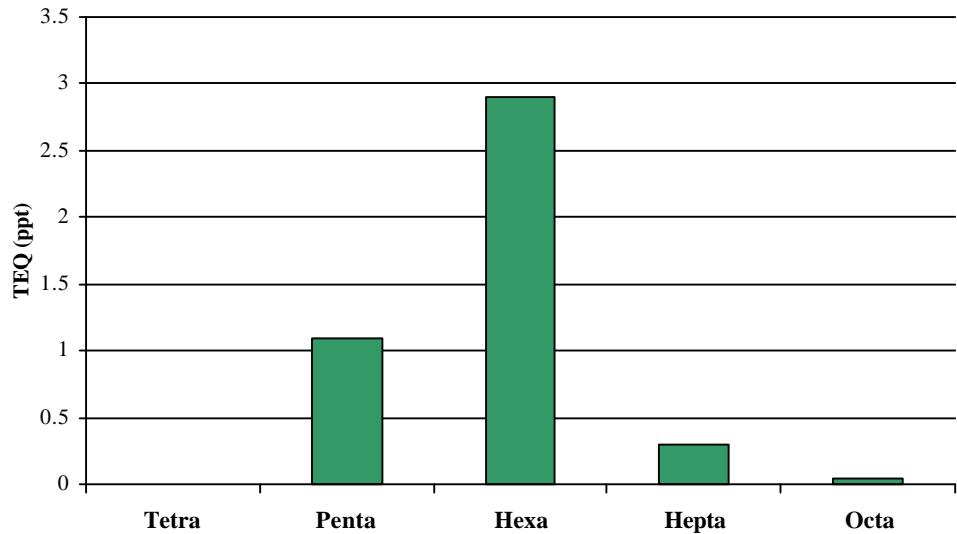
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)

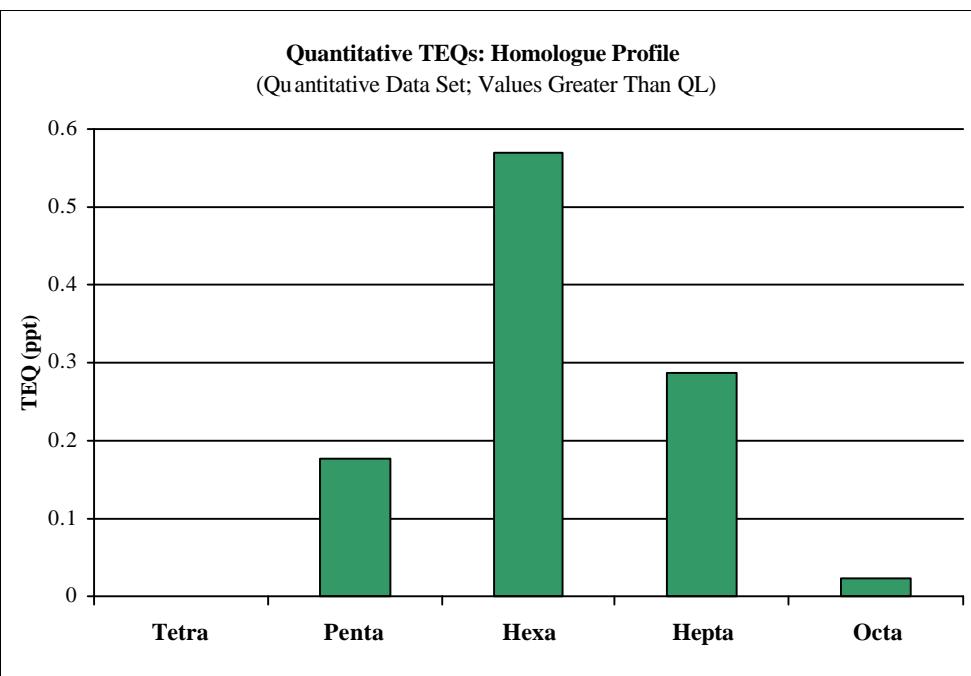
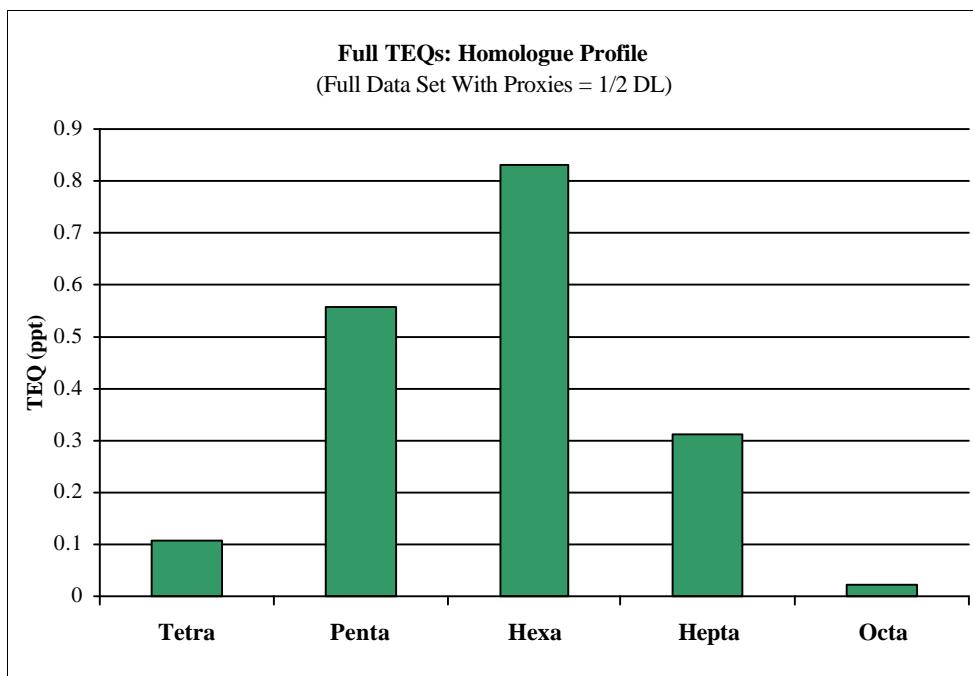
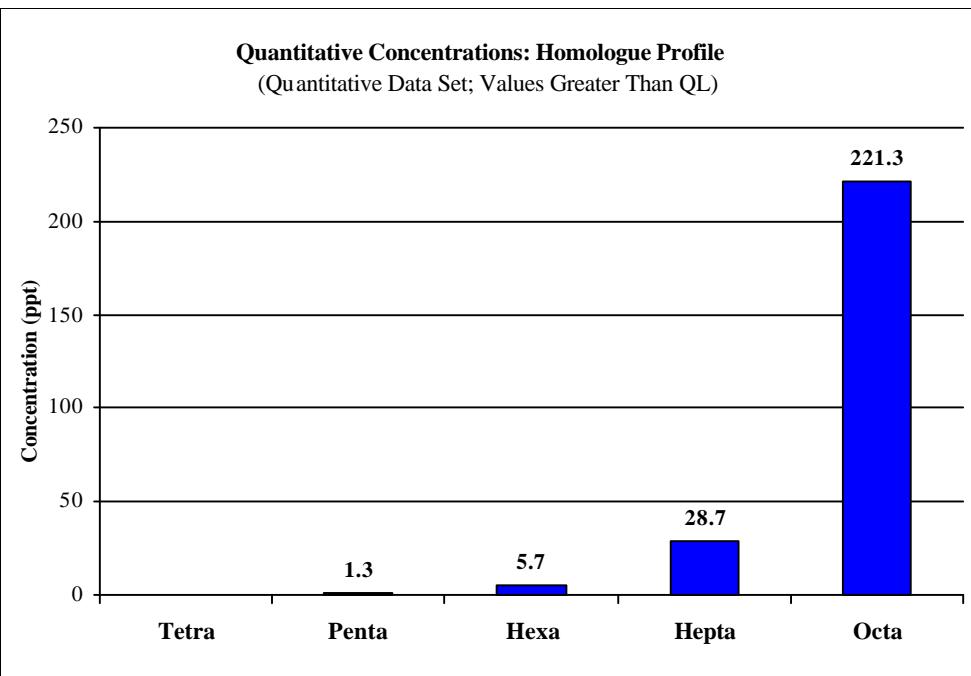
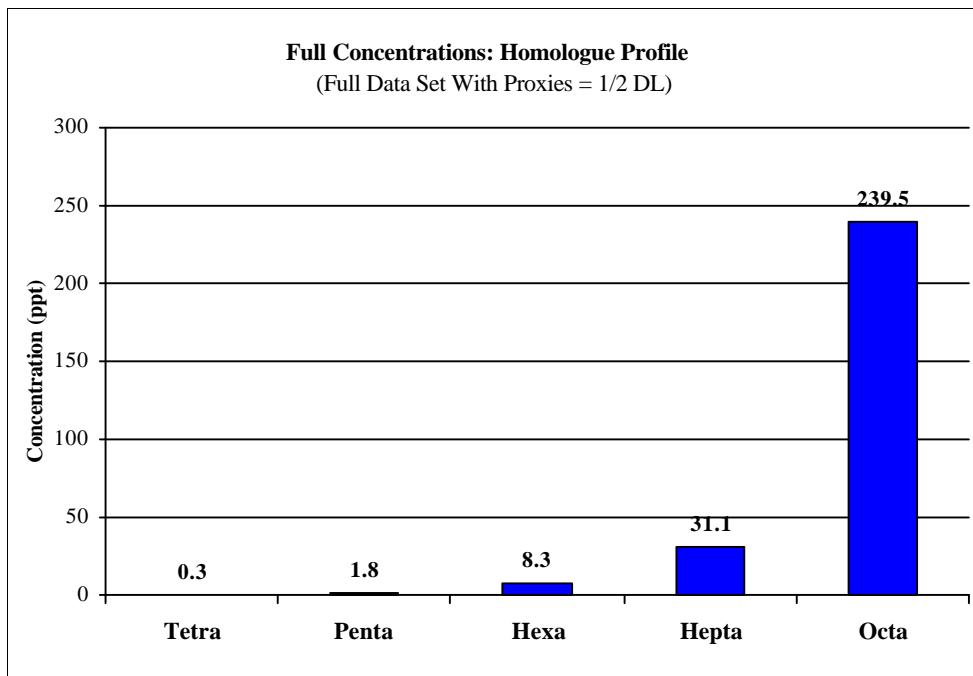


**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



Sample 218

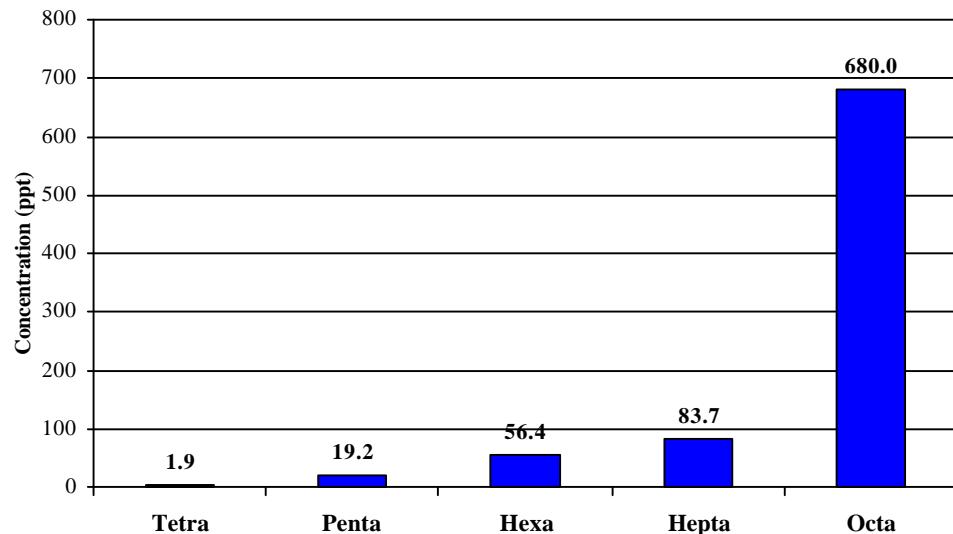
SP-5



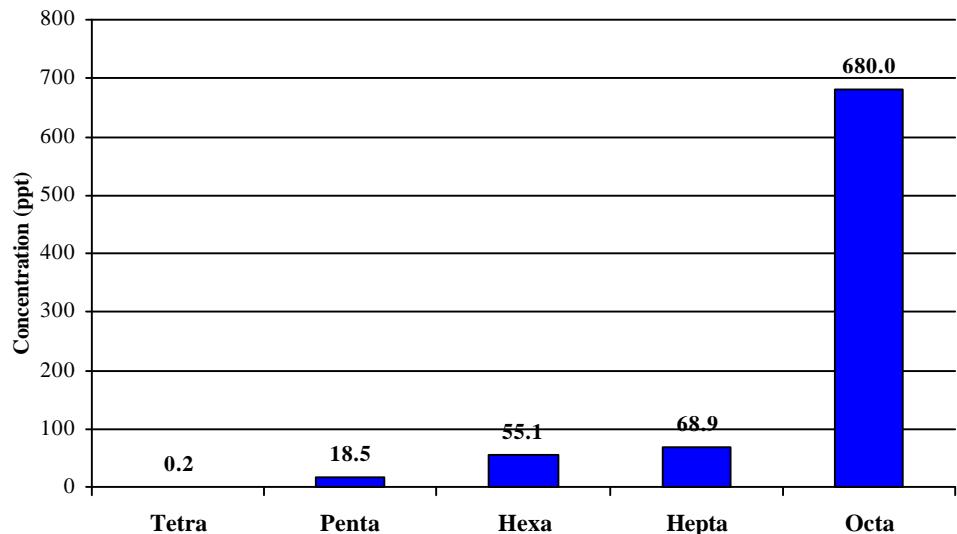
Sample 523

SP-6

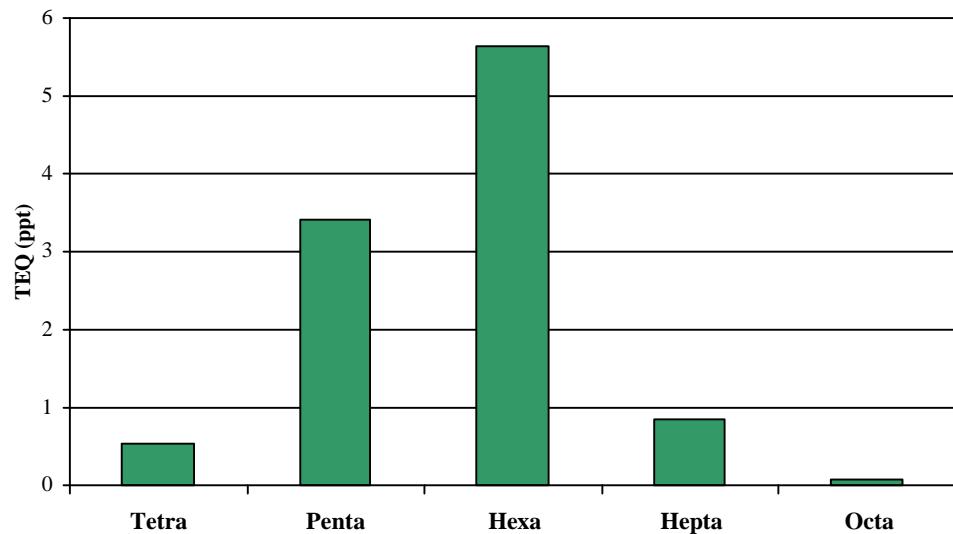
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



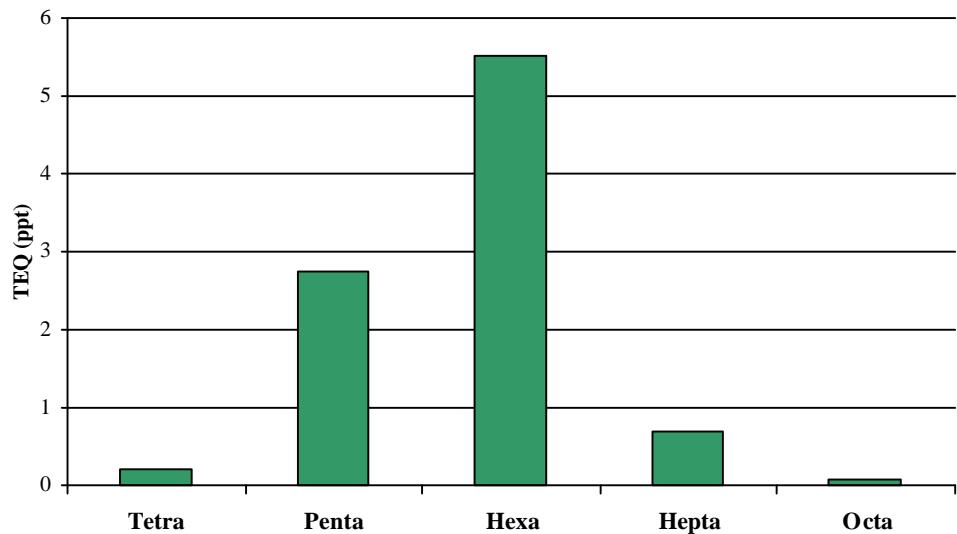
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)

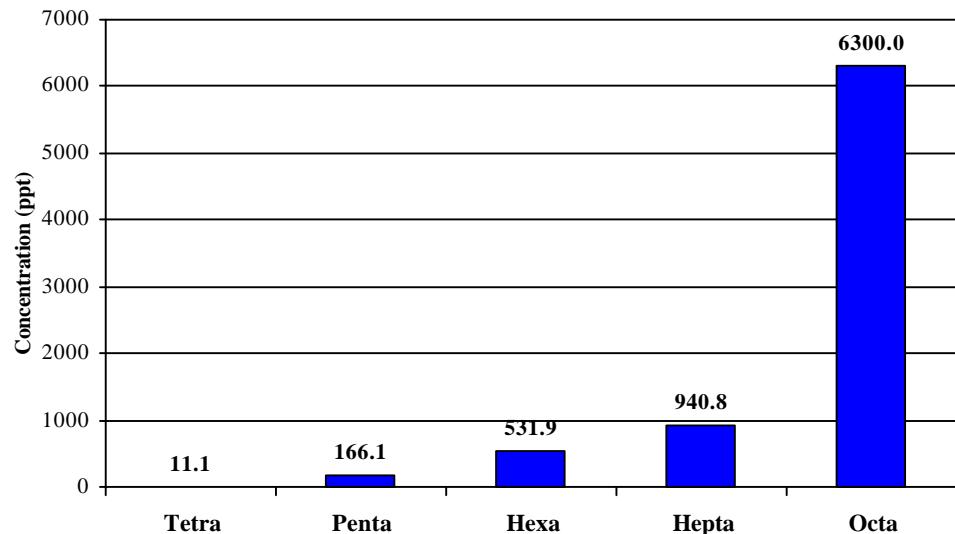


## Appendix B2. Homologue Profiles

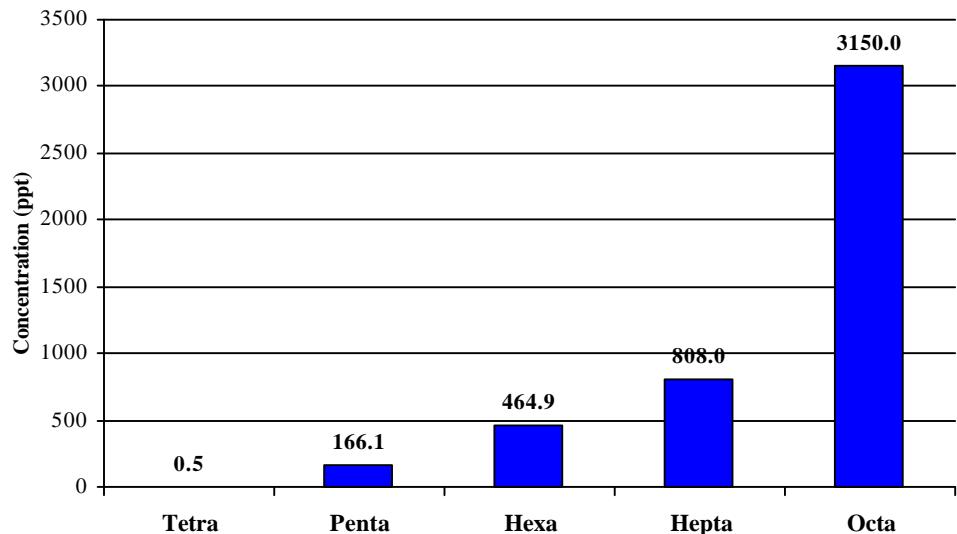
Sample 347

SP-7

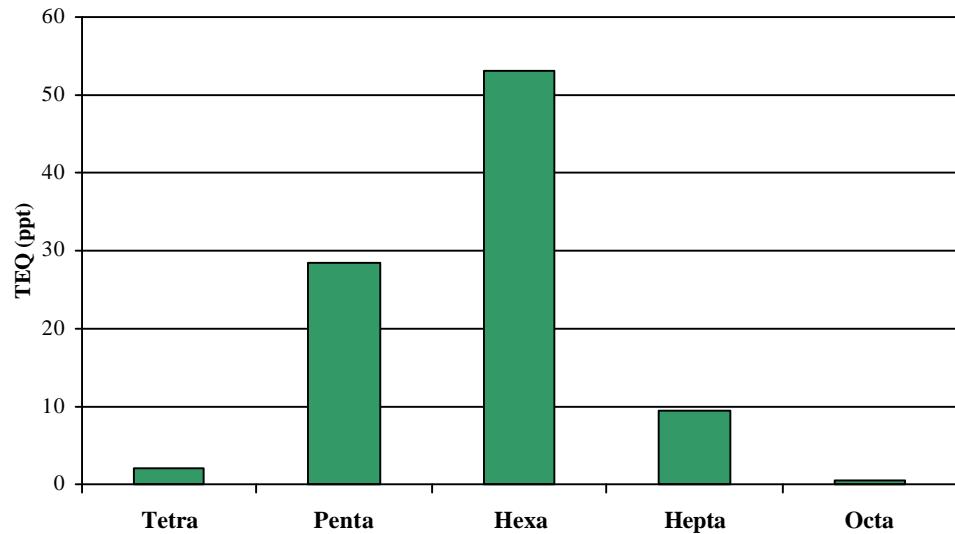
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



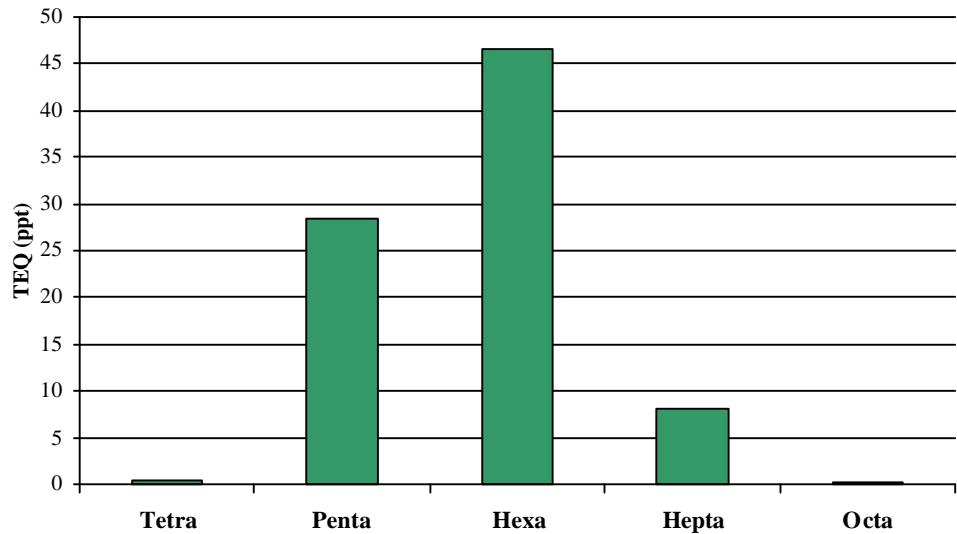
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)



**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)

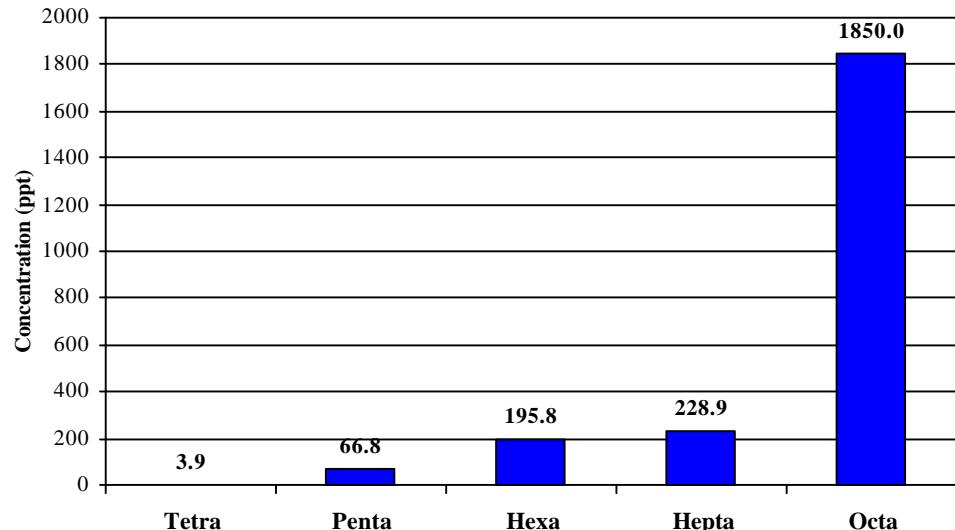


Sample 555

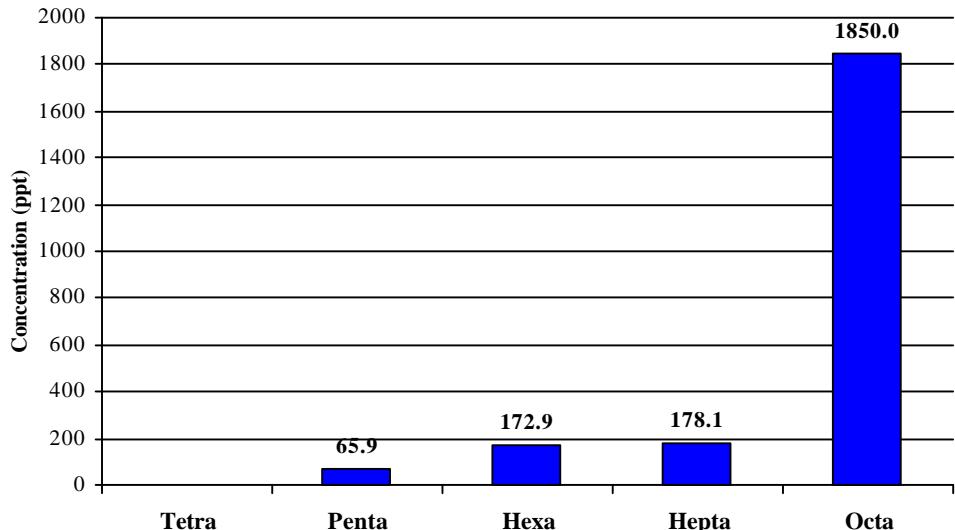
SP-8

**Full Concentrations: Homologue Profile**

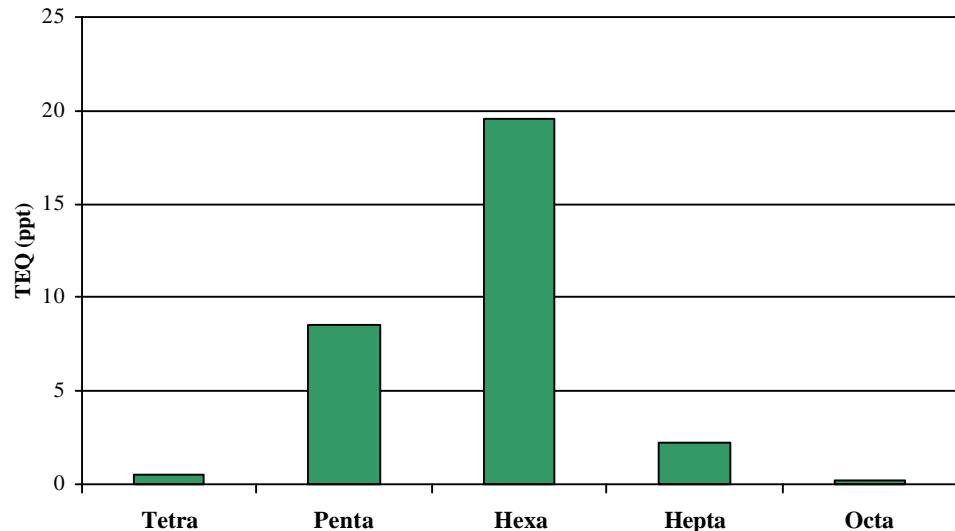
(Full Data Set With Proxies = 1/2 DL)

**Quantitative Concentrations: Homologue Profile**

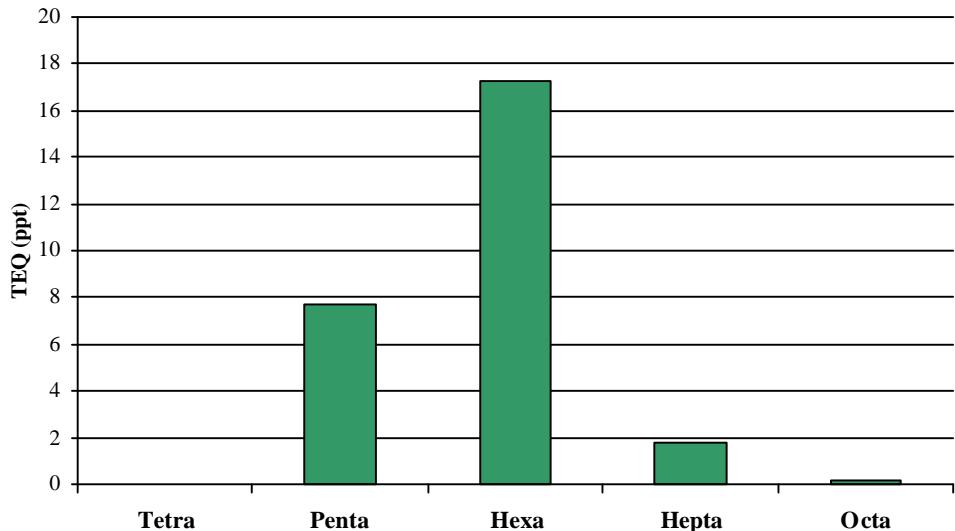
(Quantitative Data Set; Values Greater Than QL)

**Full TEQs: Homologue Profile**

(Full Data Set With Proxies = 1/2 DL)

**Quantitative TEQs: Homologue Profile**

(Quantitative Data Set; Values Greater Than QL)

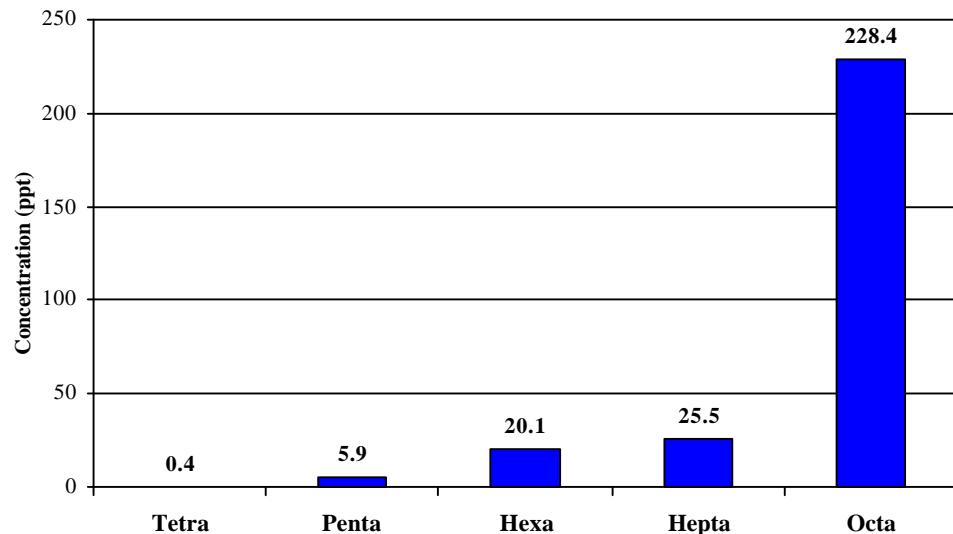


## Appendix B2. Homologue Profiles

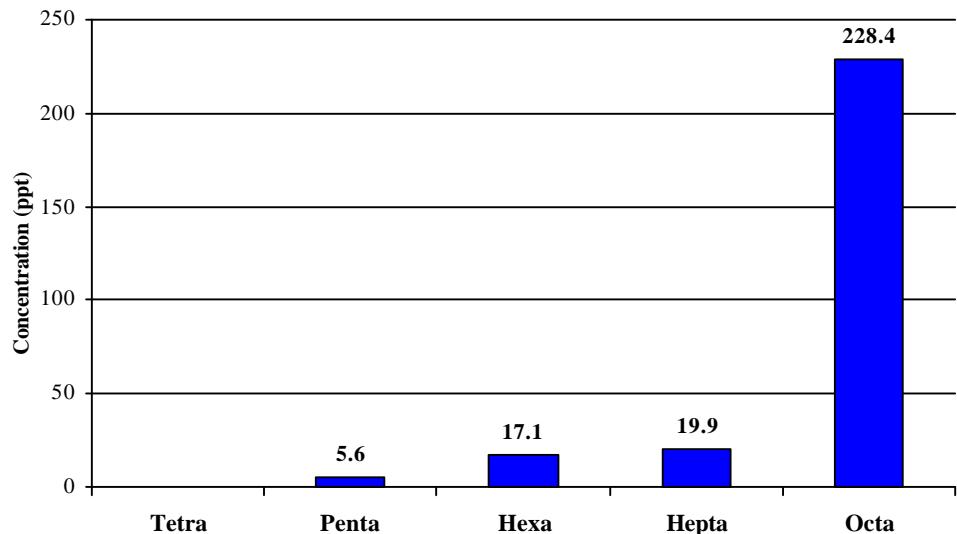
Sample 497

SP-9

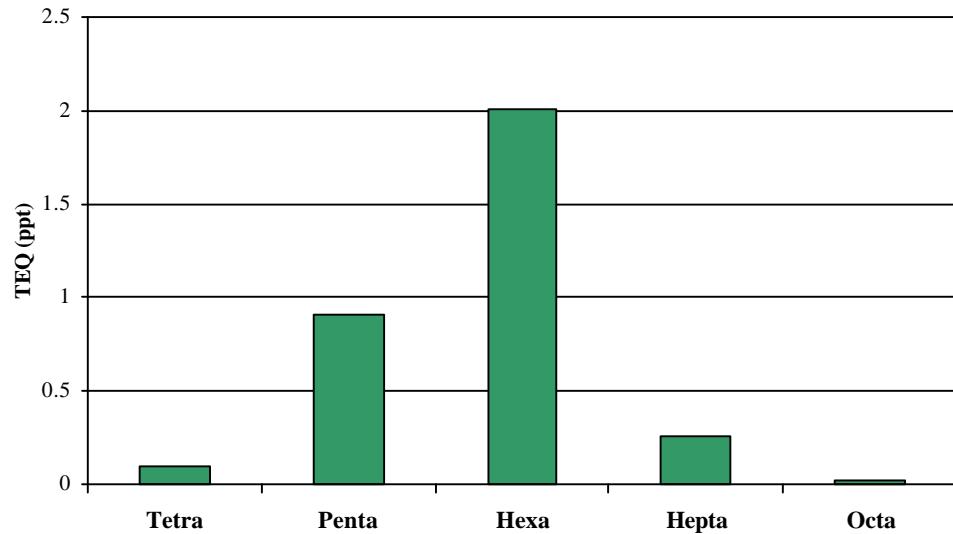
**Full Concentrations: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)



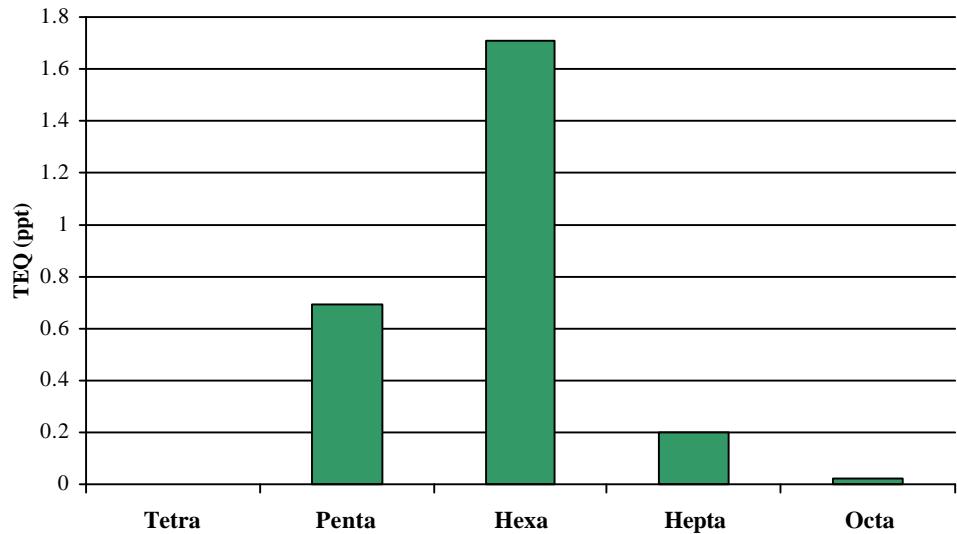
**Quantitative Concentrations: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)

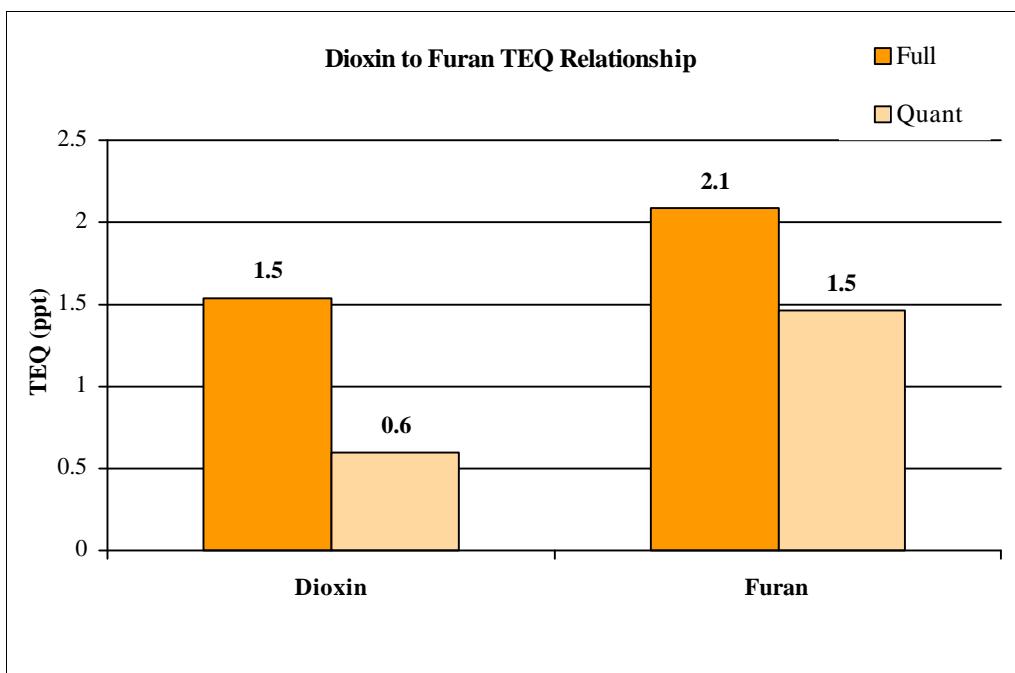
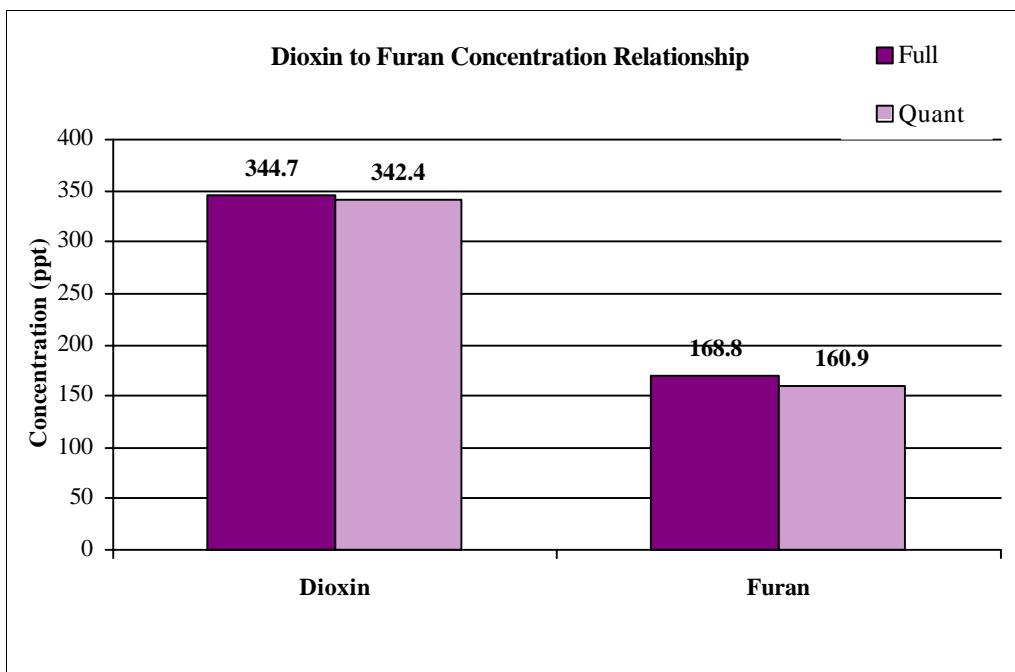


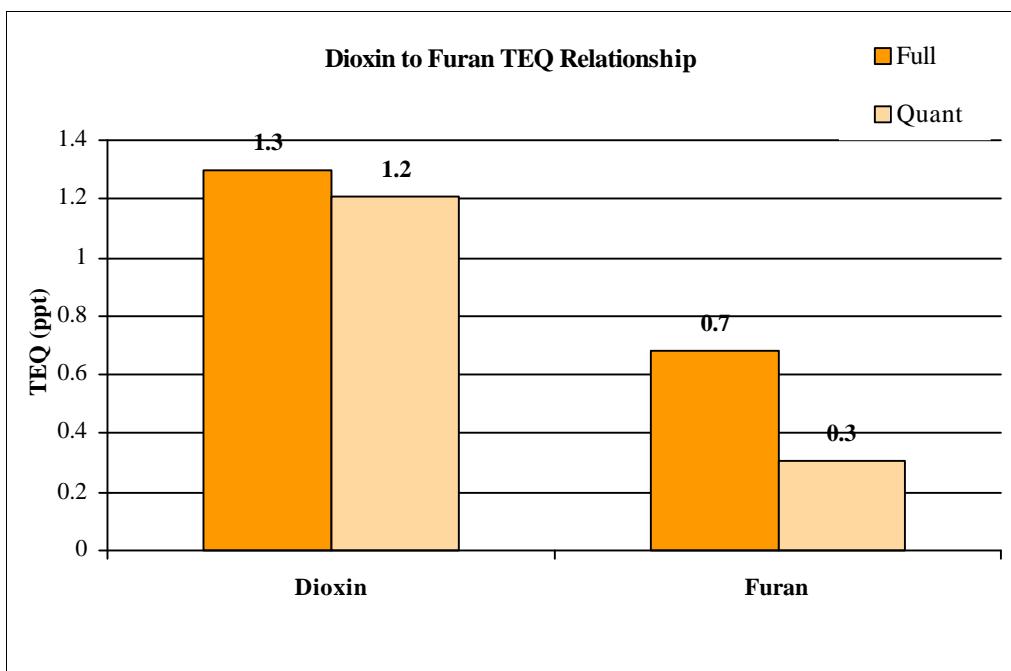
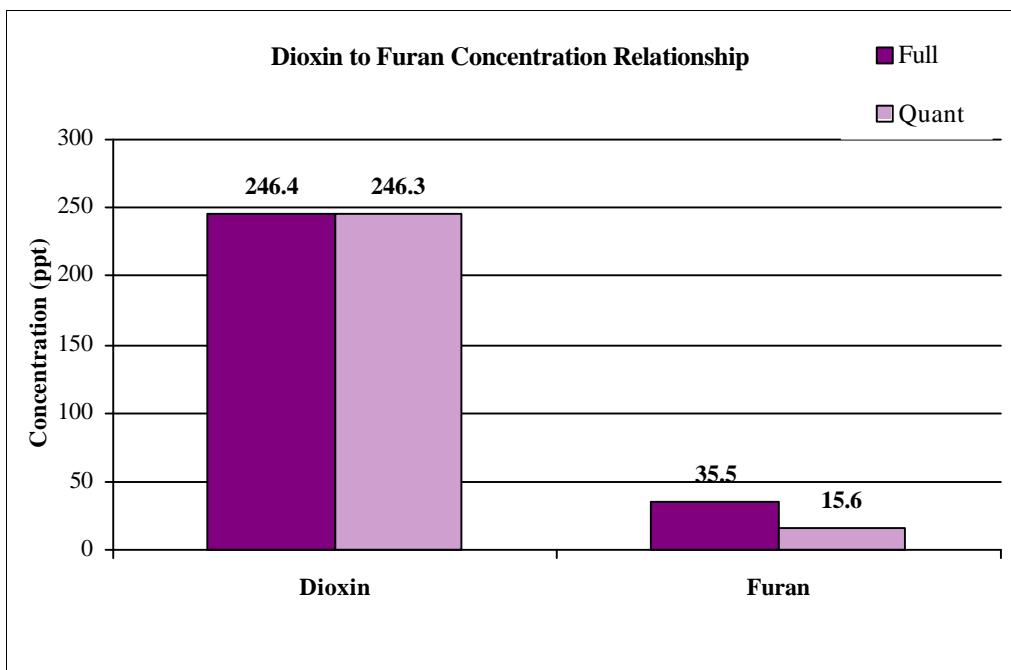
**Full TEQs: Homologue Profile**  
(Full Data Set With Proxies = 1/2 DL)

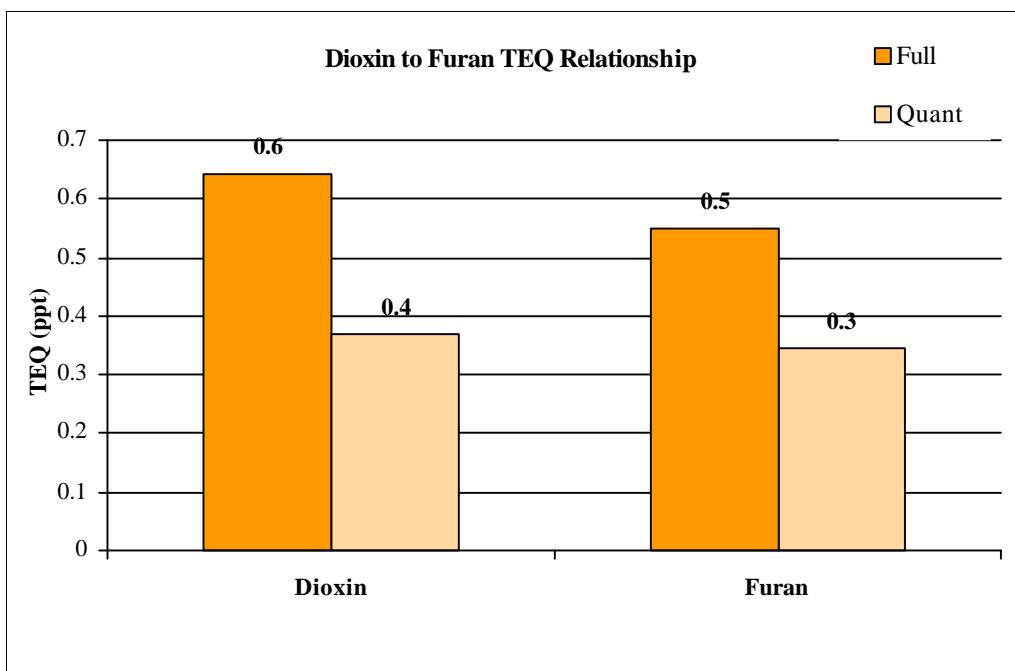
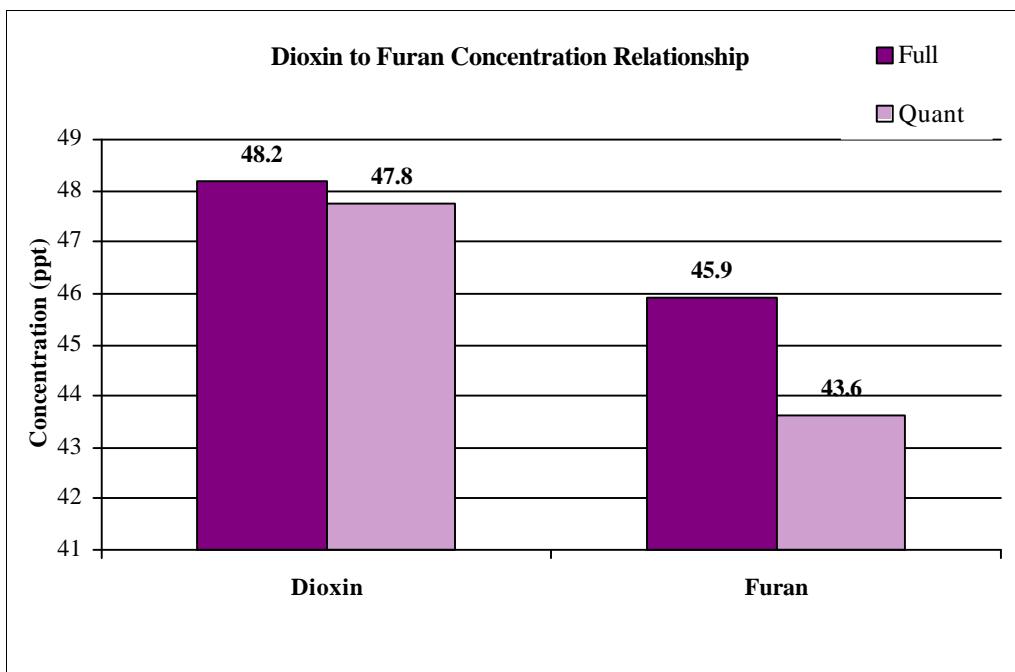


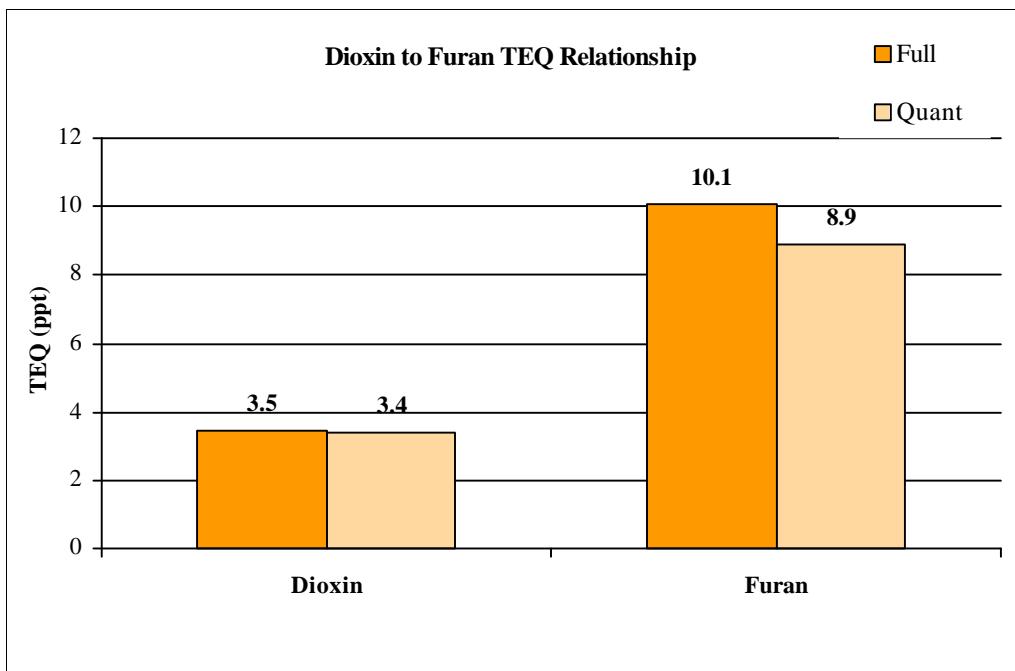
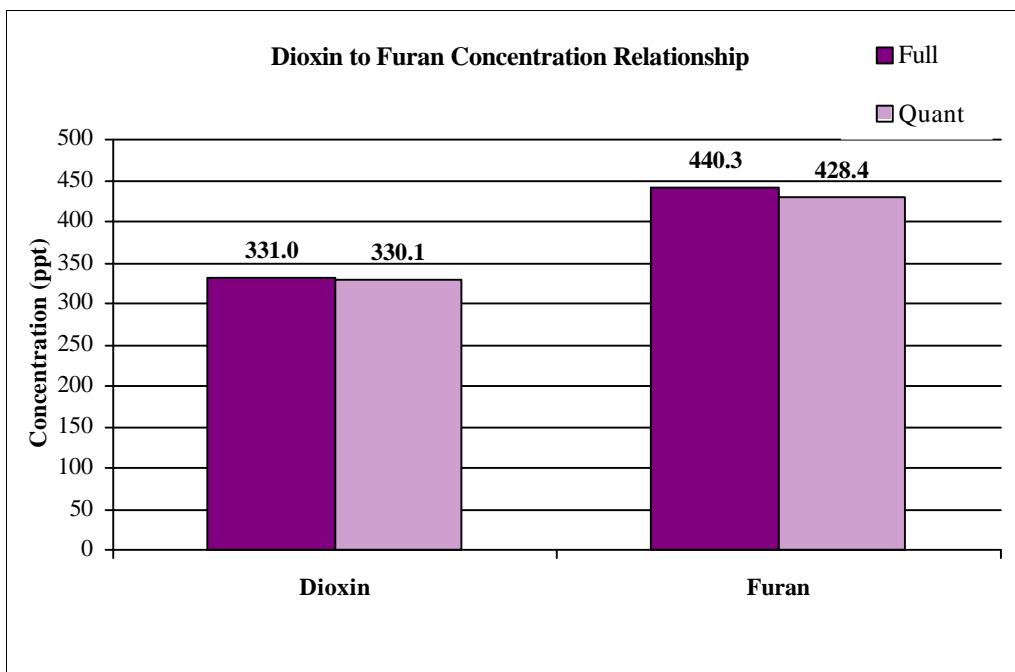
**Quantitative TEQs: Homologue Profile**  
(Quantitative Data Set; Values Greater Than QL)

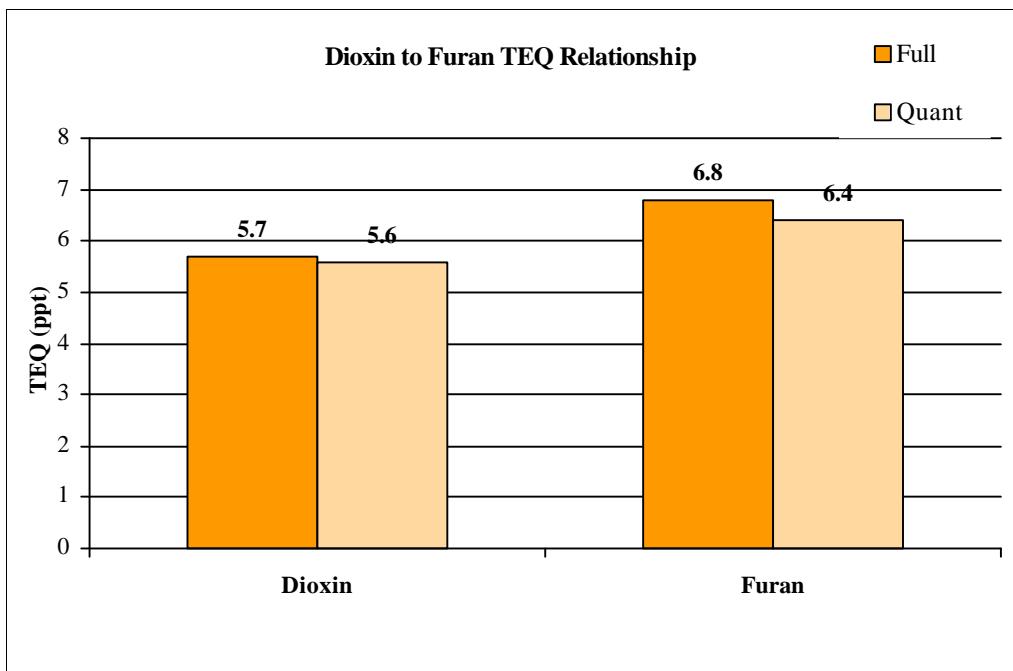
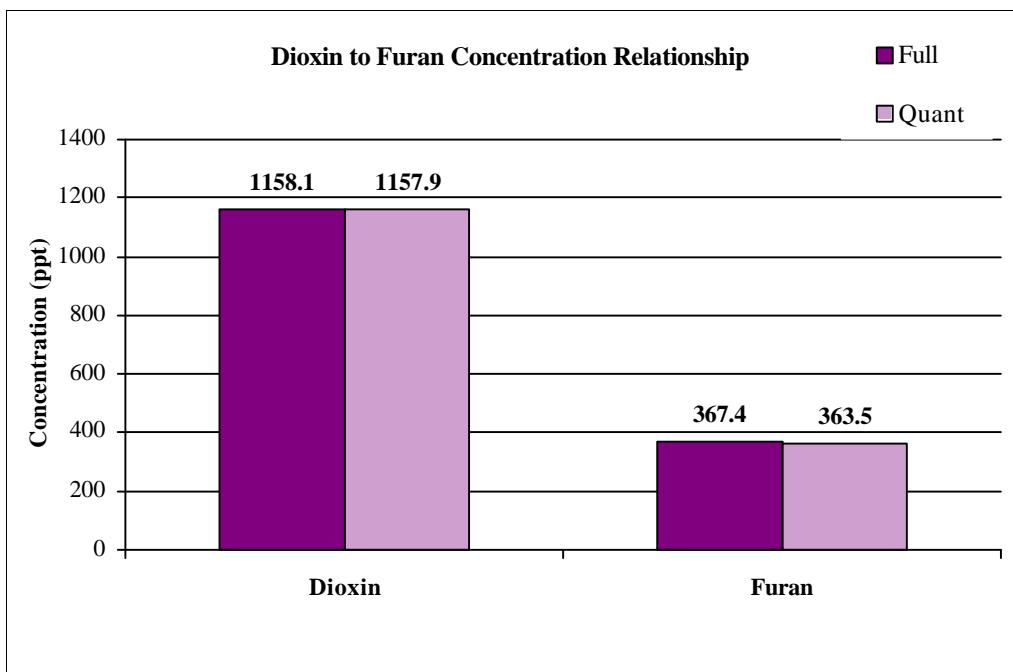


*Sample 105**P-1*

*Sample 714**P-10*

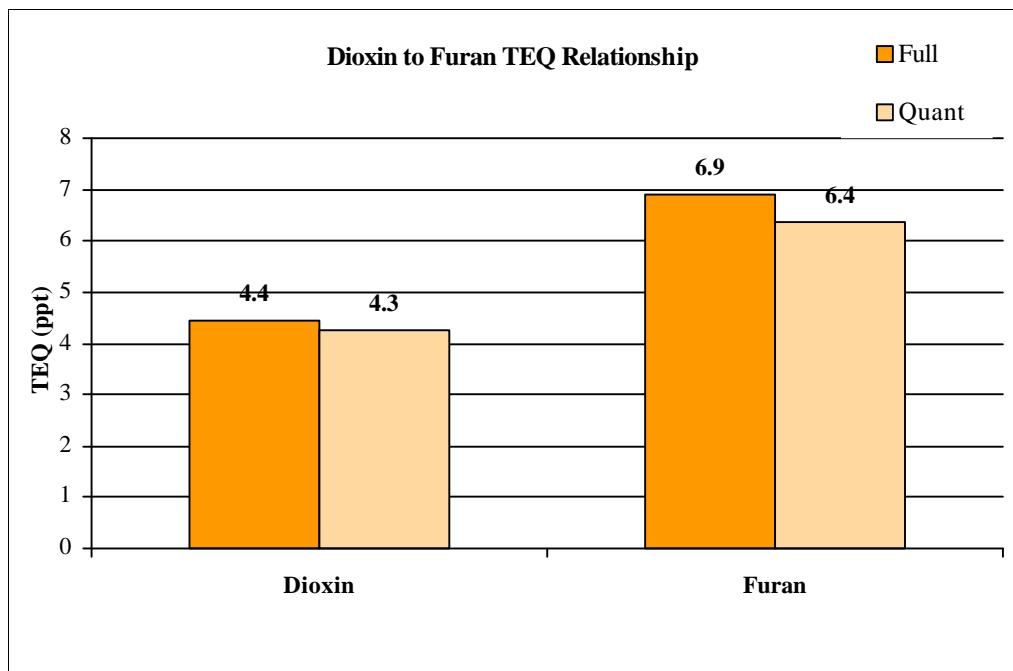
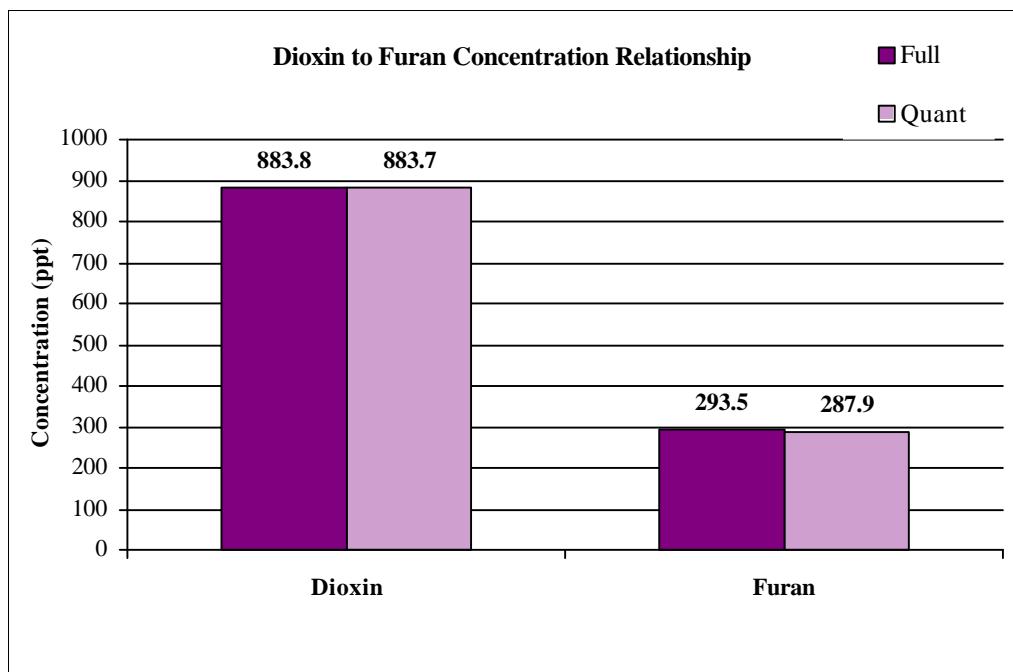
*Sample 769**P-2*

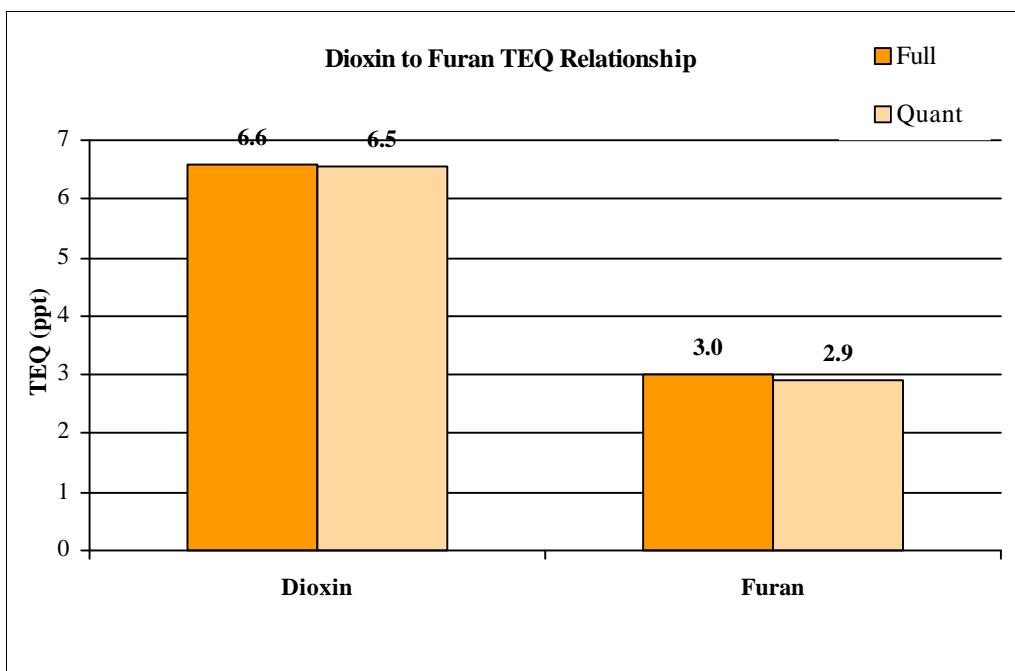
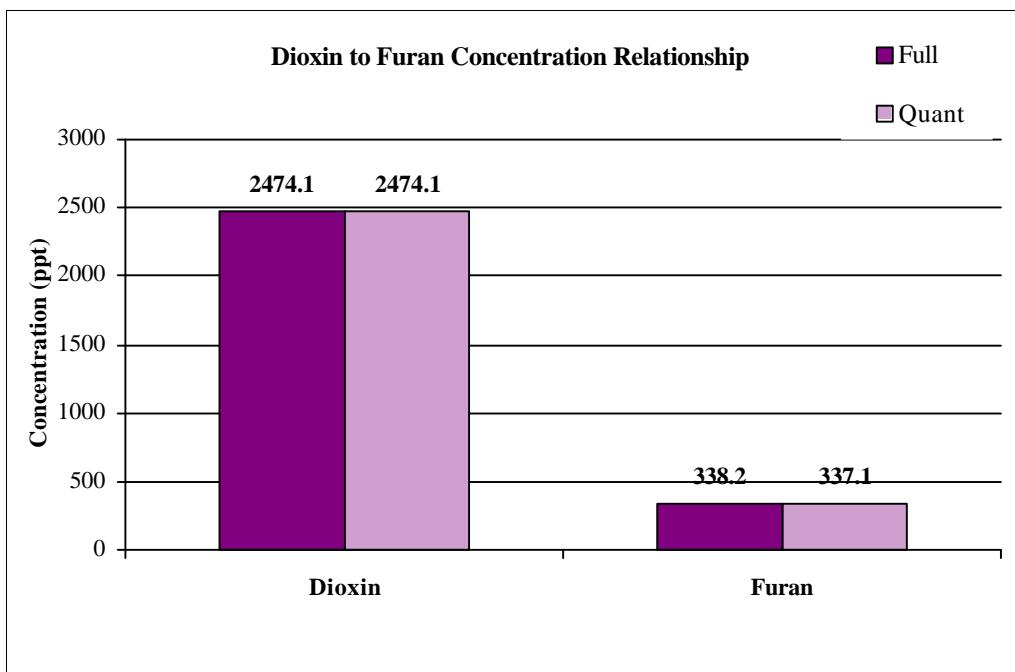
*Sample 819**P-3*

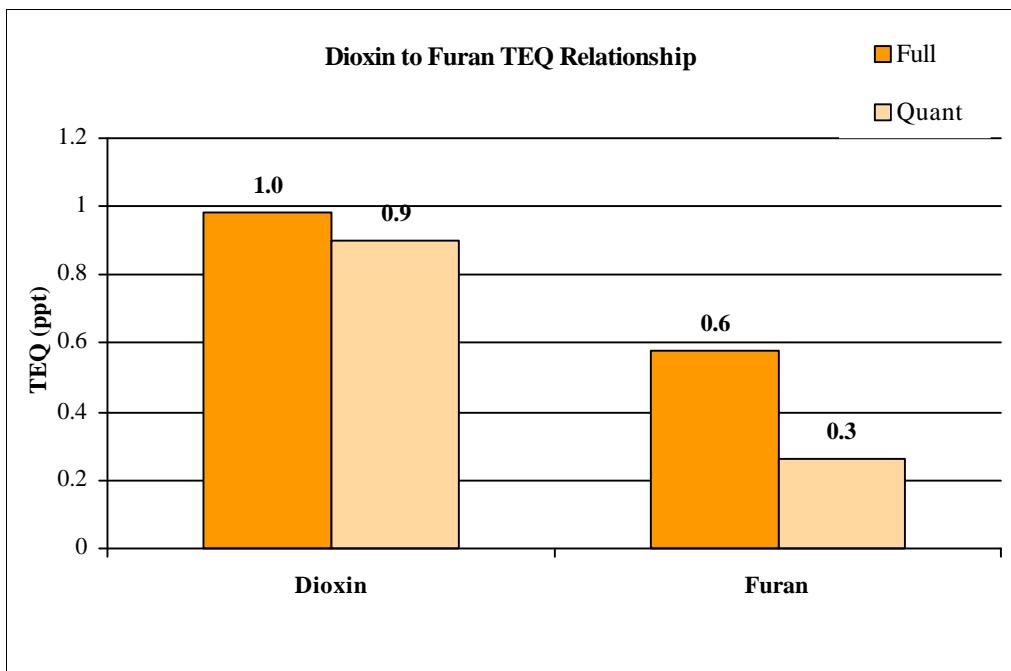
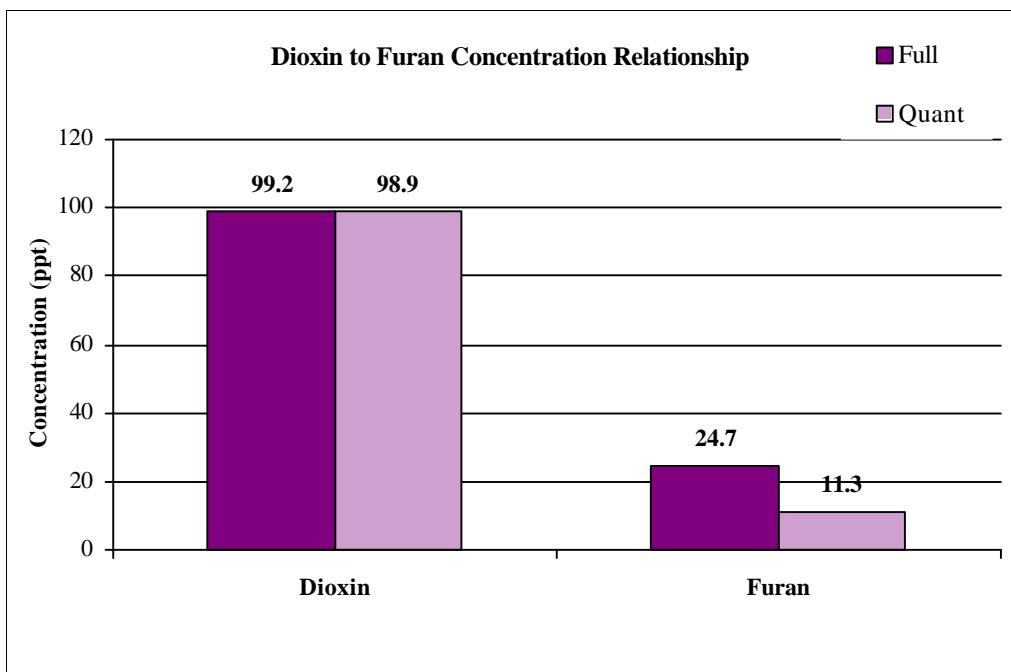
*Sample 157**P-4*

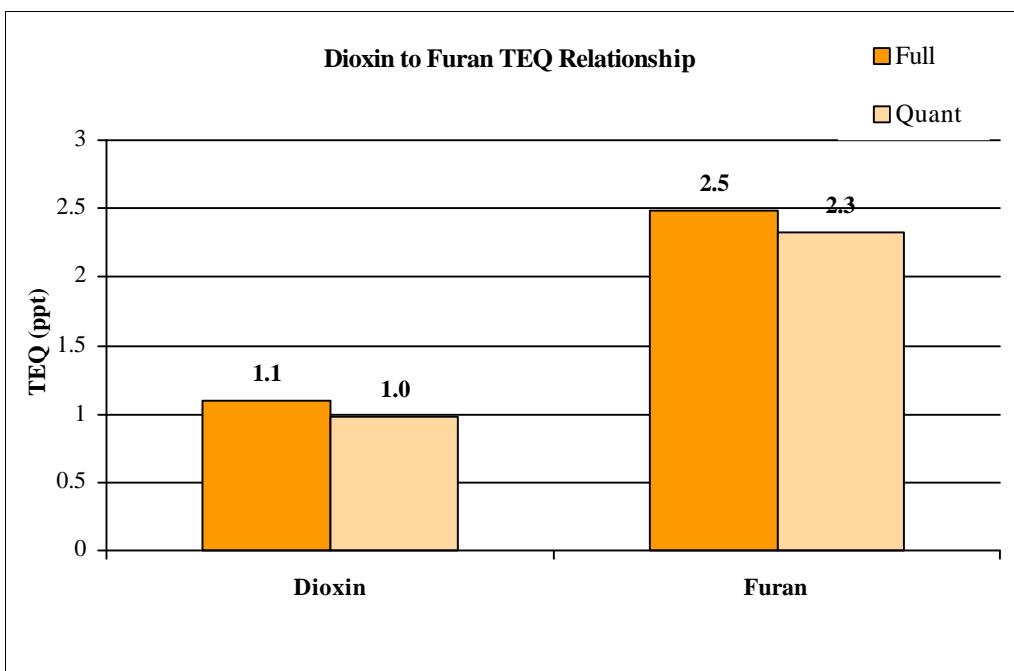
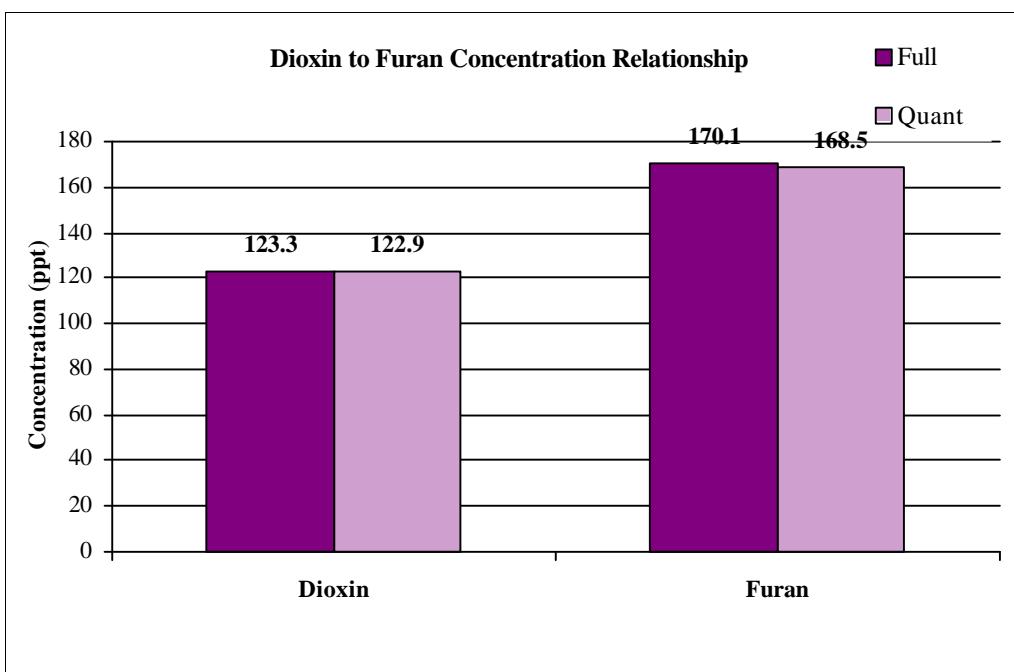
*Sample 273**P-5*

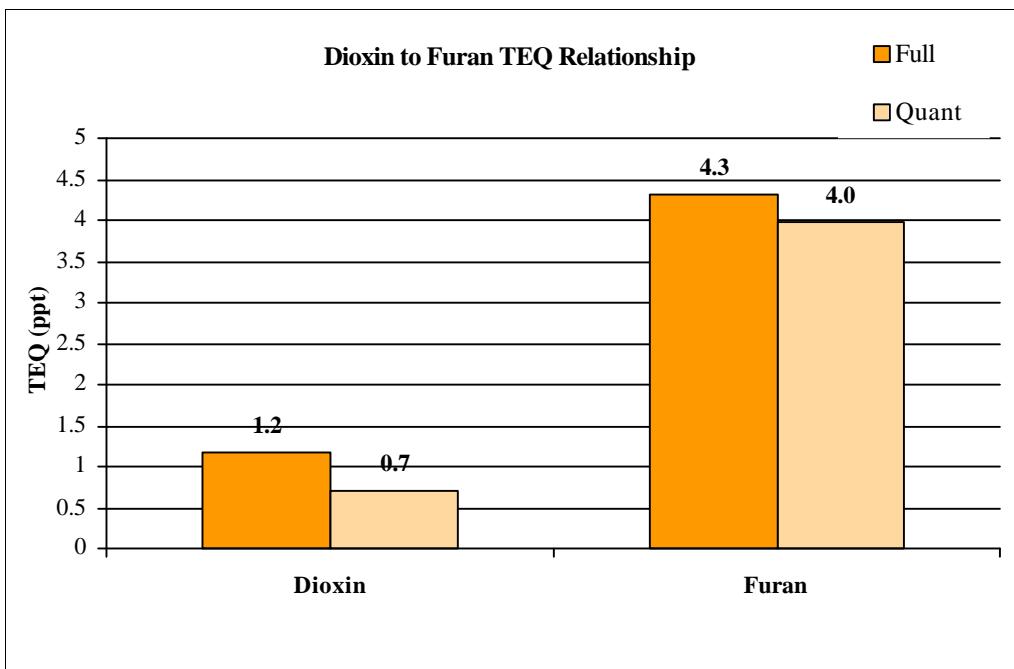
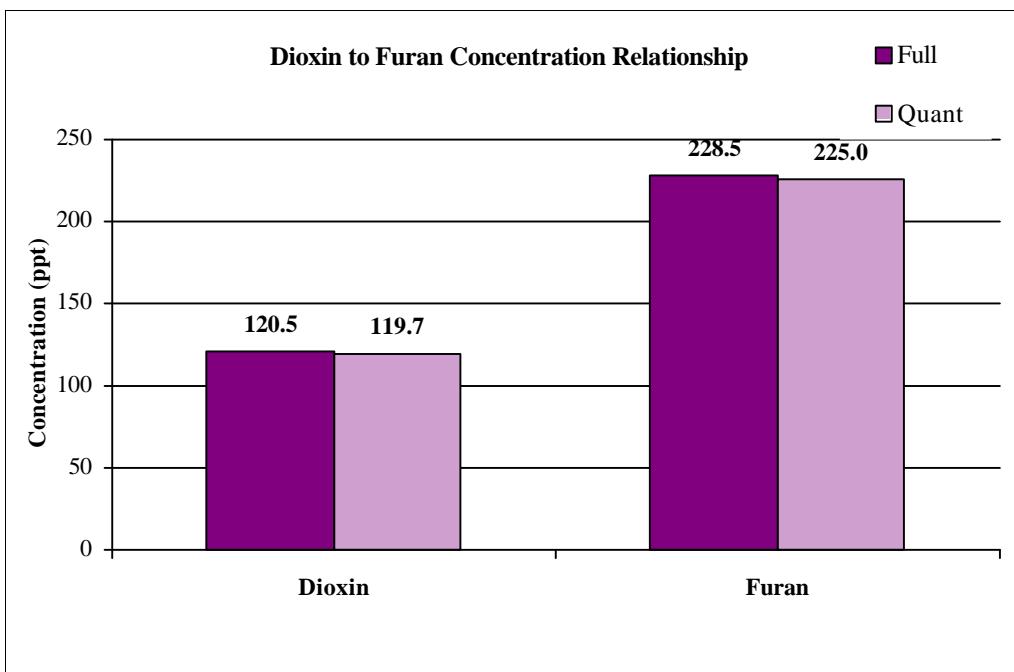
Replaced 'S' in result column with 10x the QL for PCB-118.

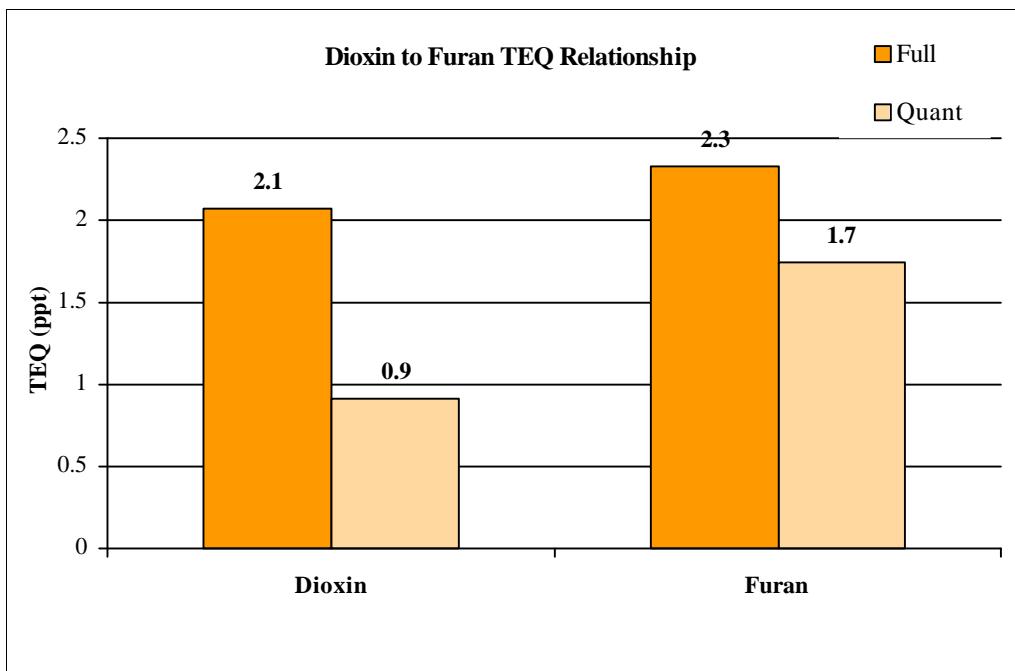
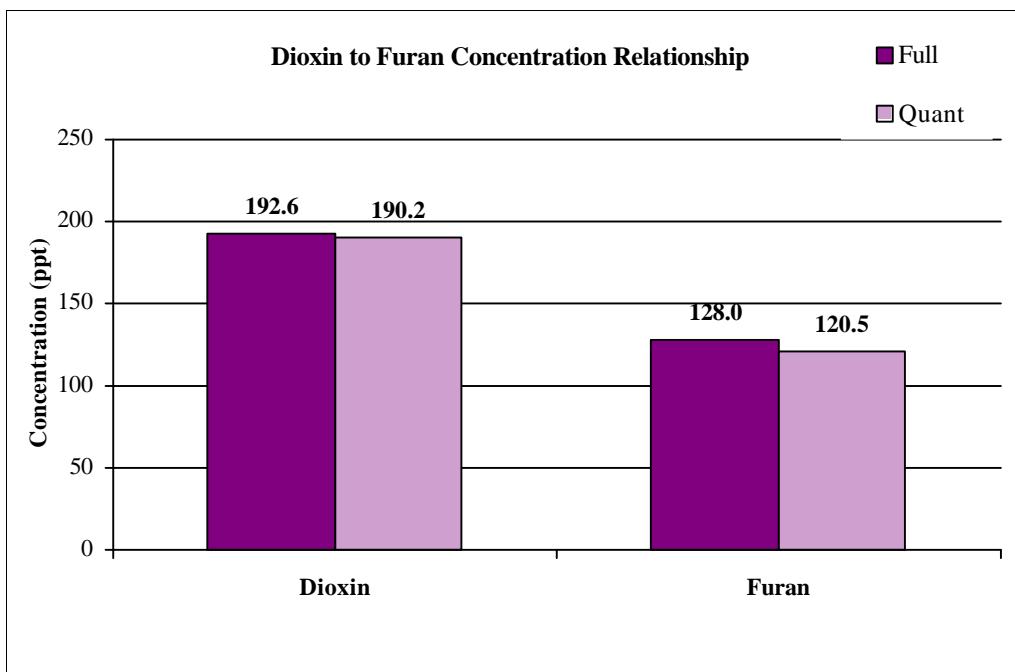


*Sample 839**P-6*

*Sample 270**P-7*

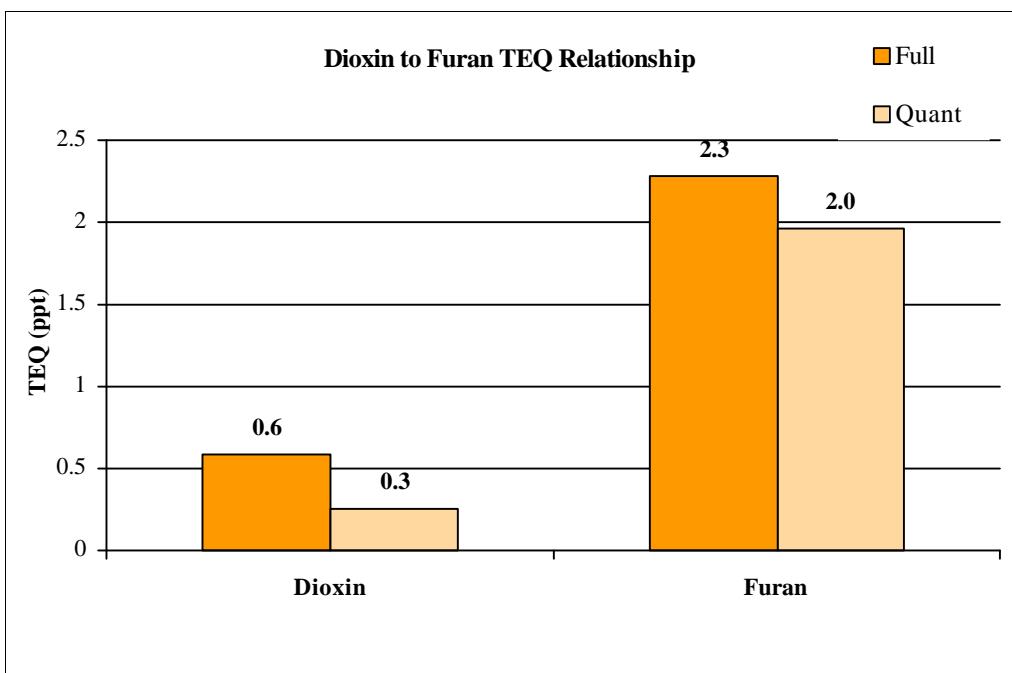
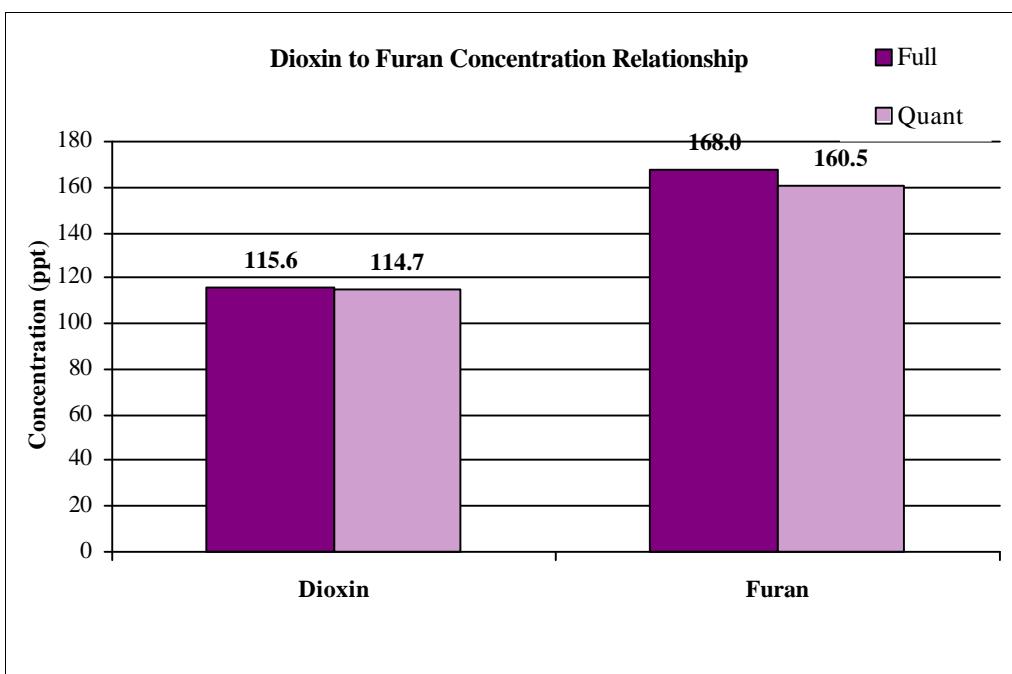
*Sample 237**P-8*

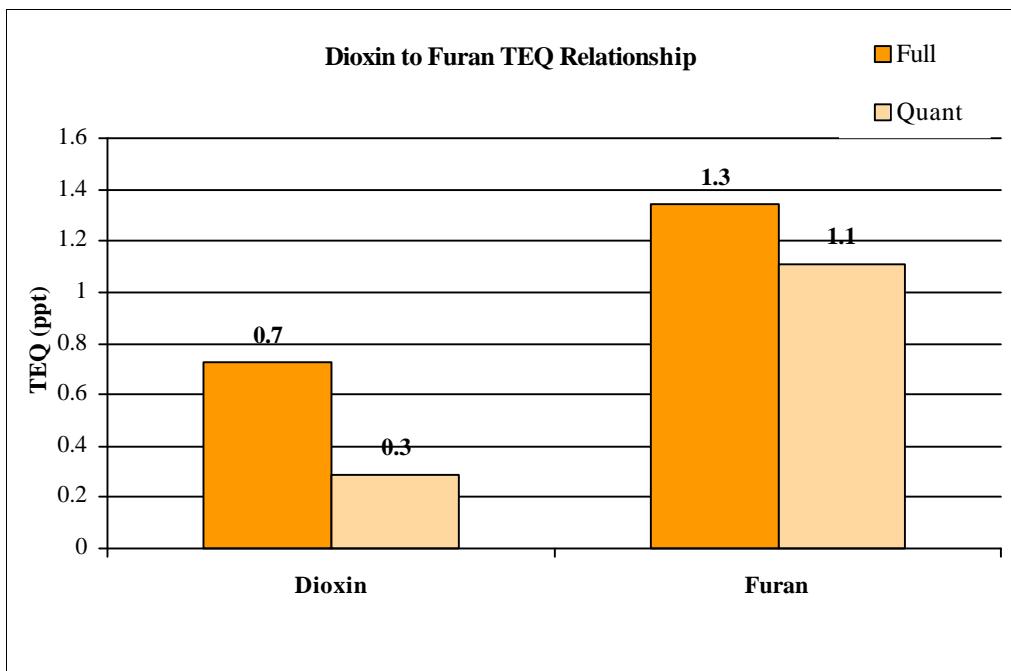
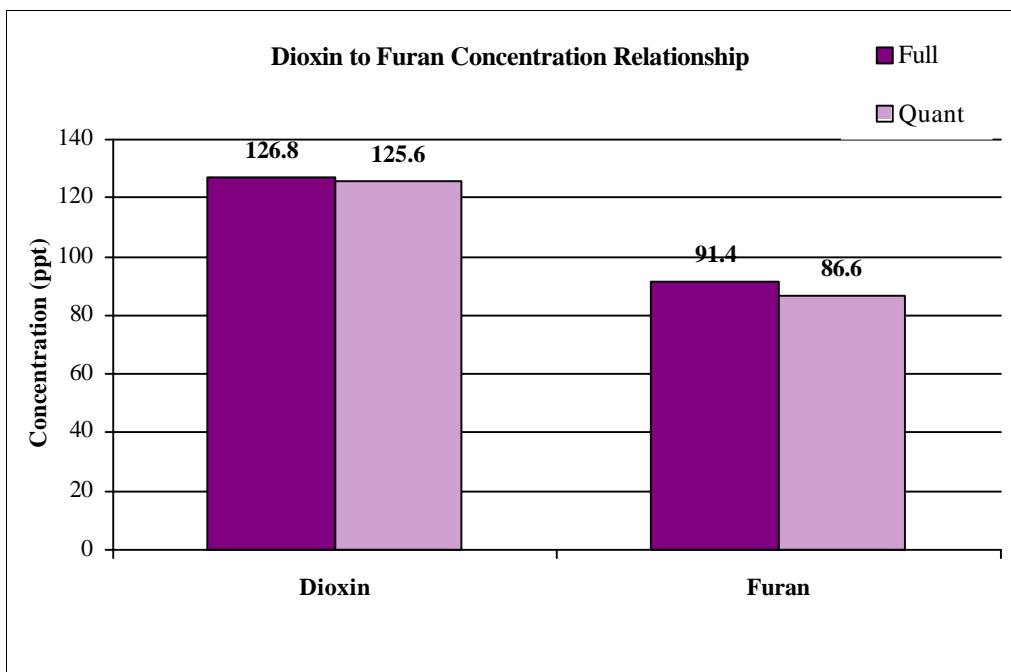
*Sample 404**P-9*

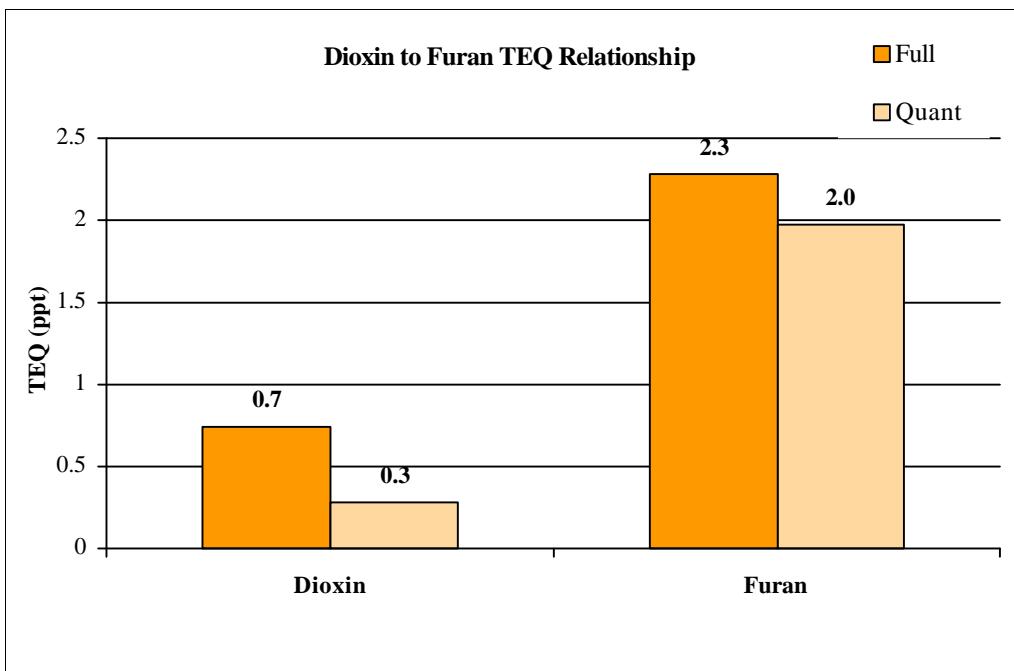
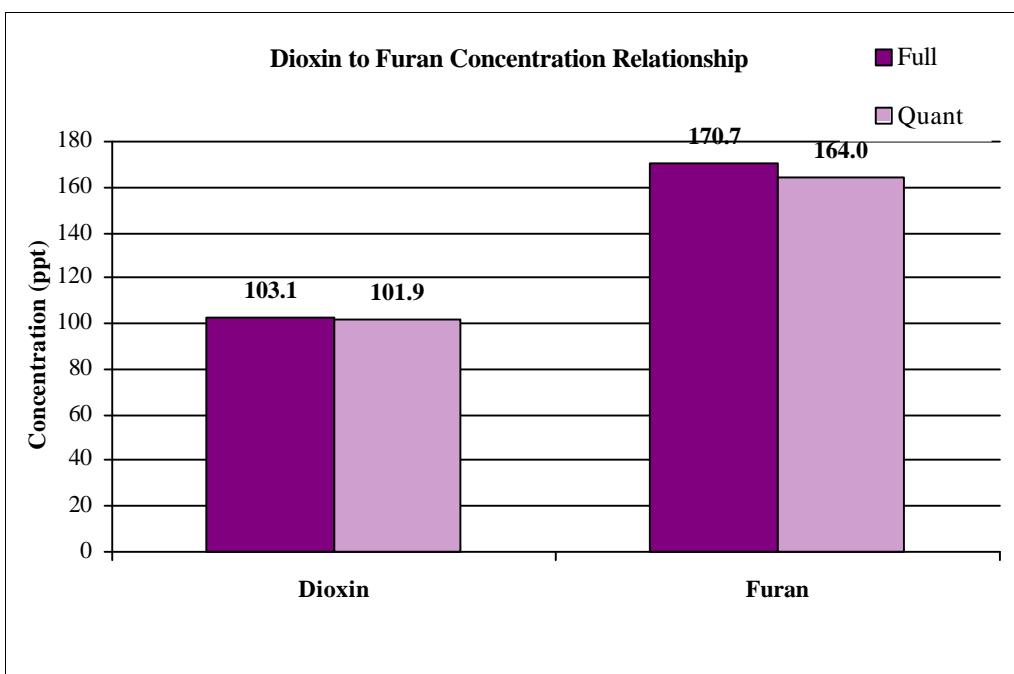
*Sample 299**SP-1*

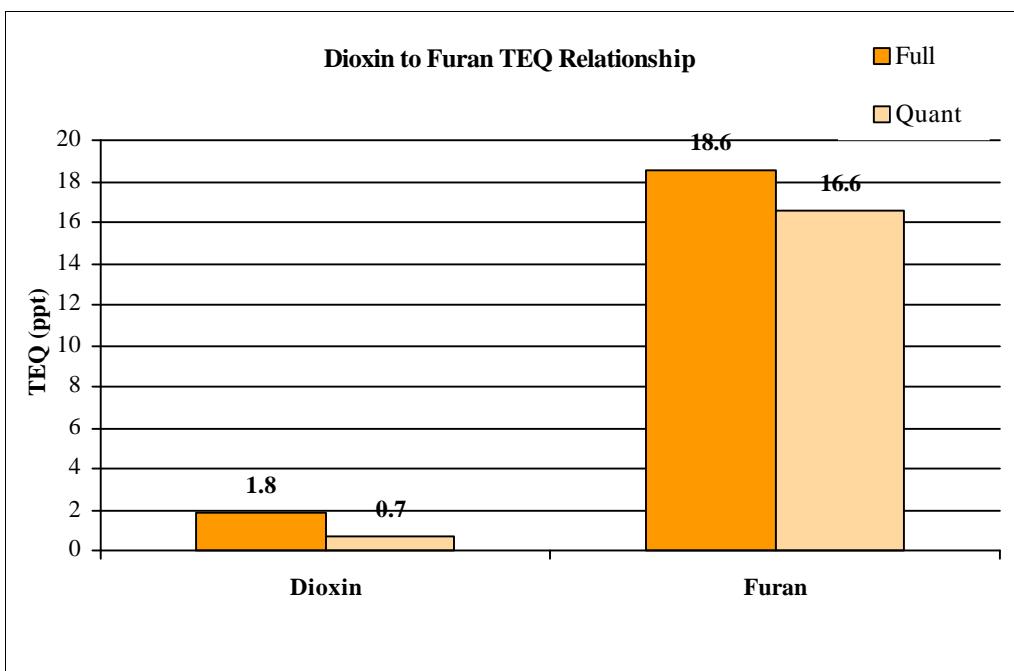
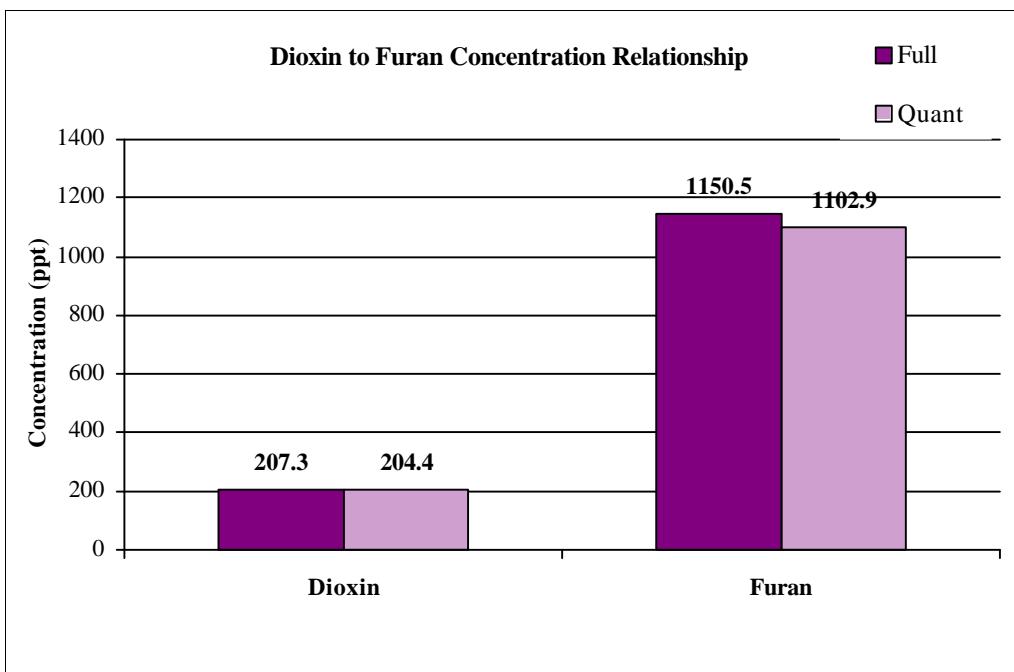
Sample 571

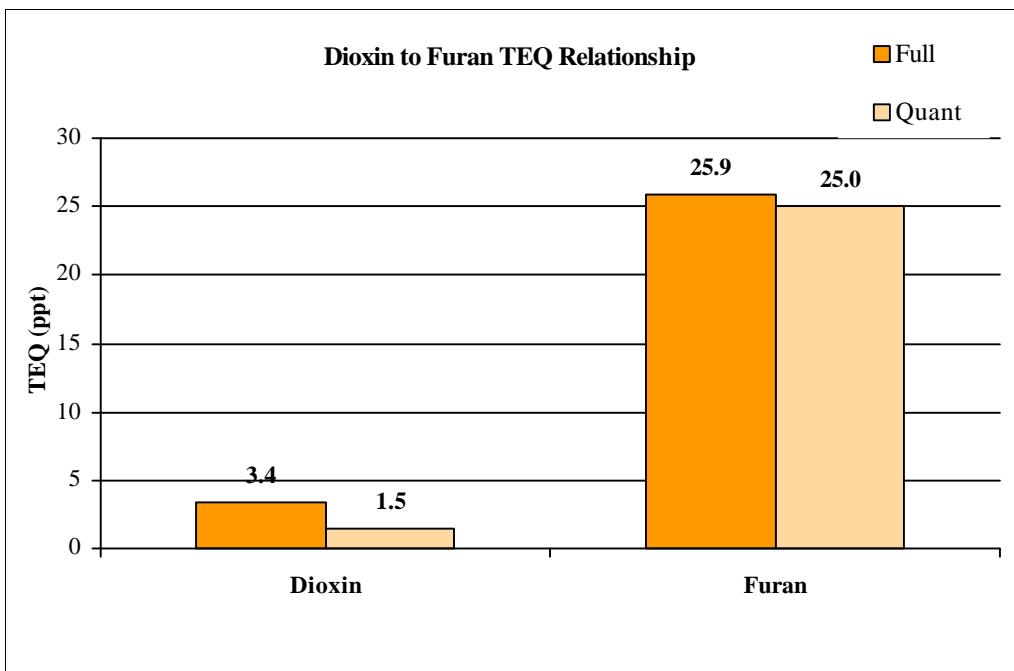
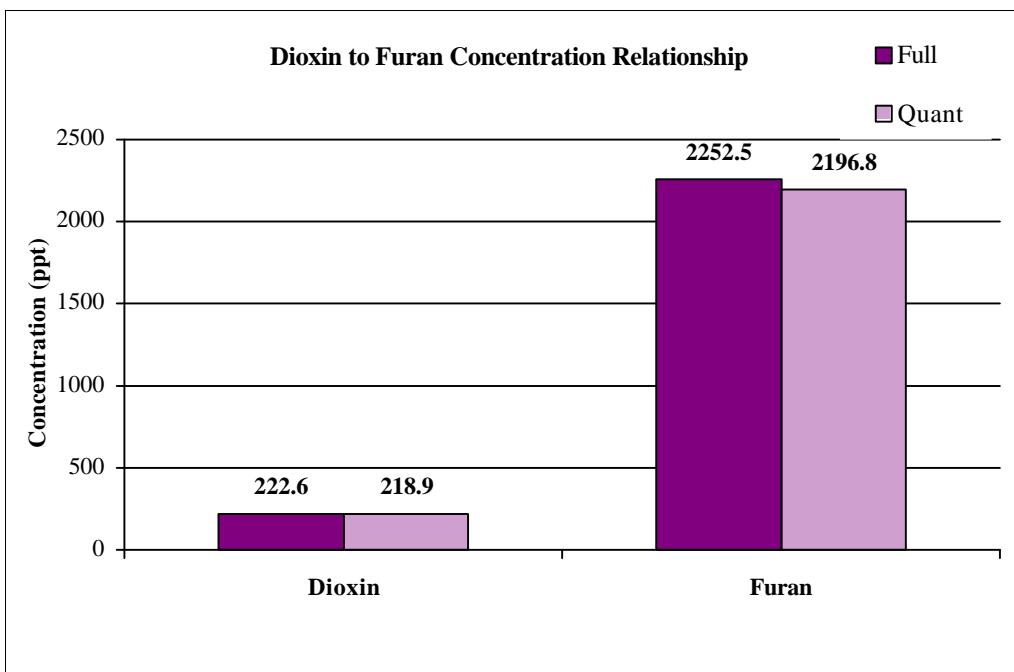
SP-10

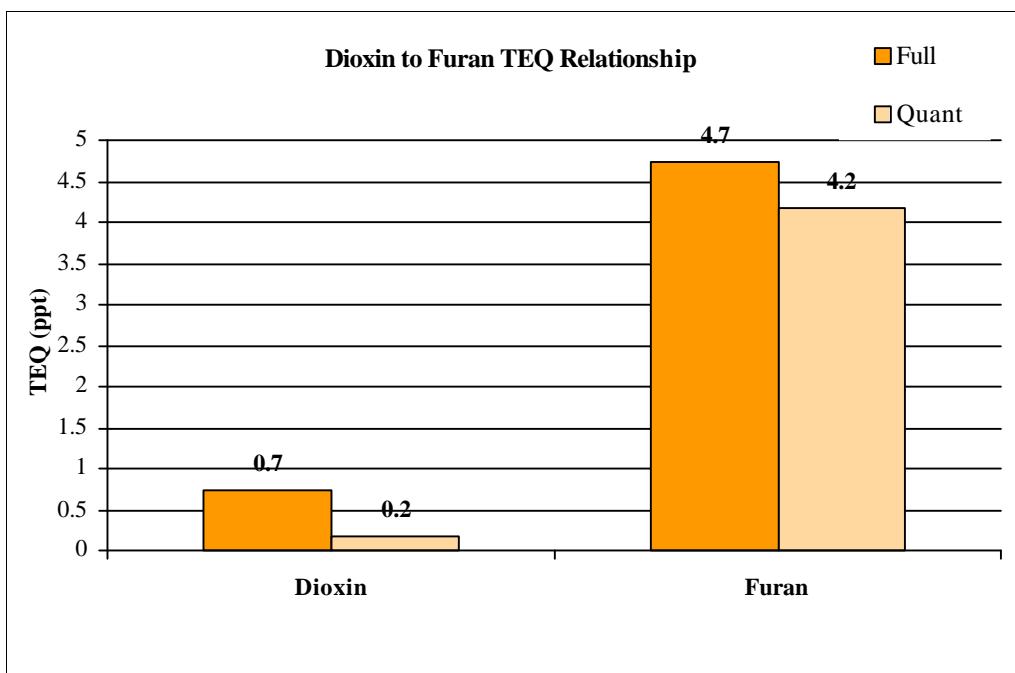
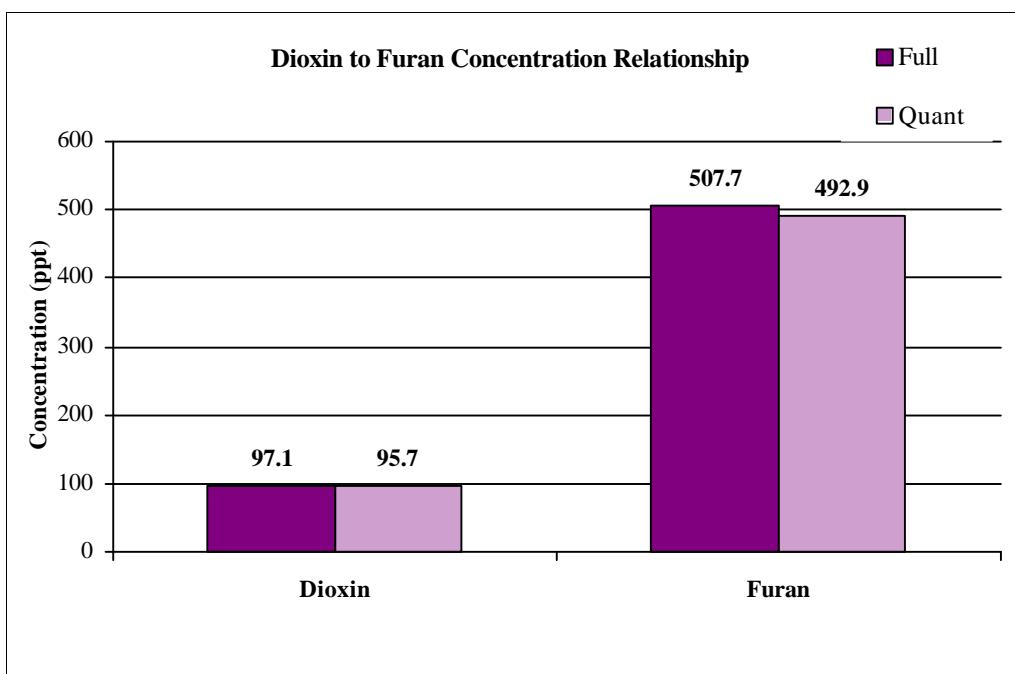


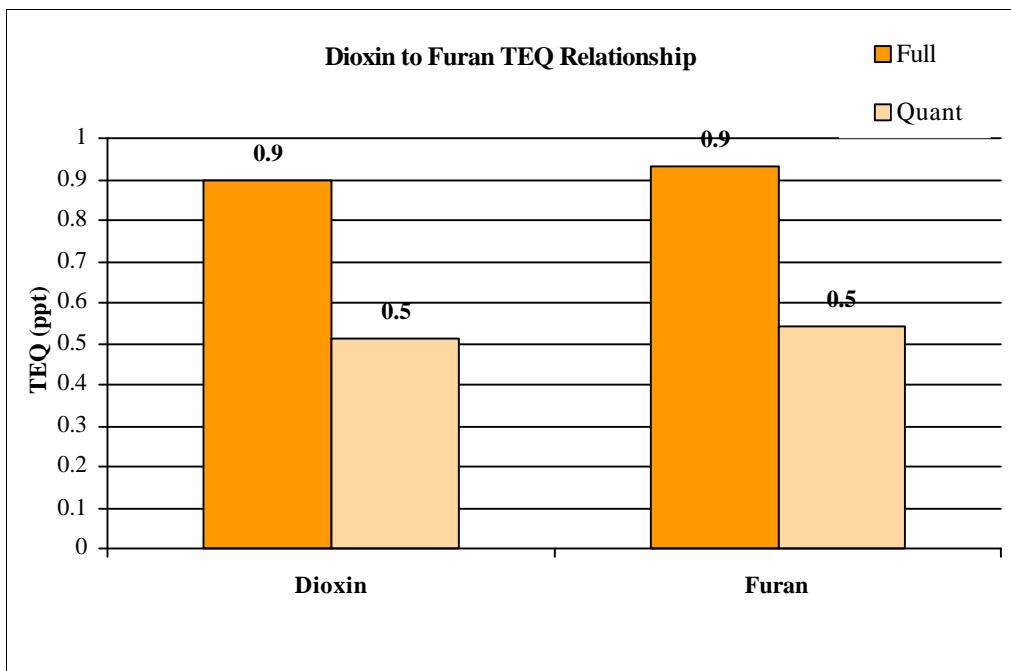
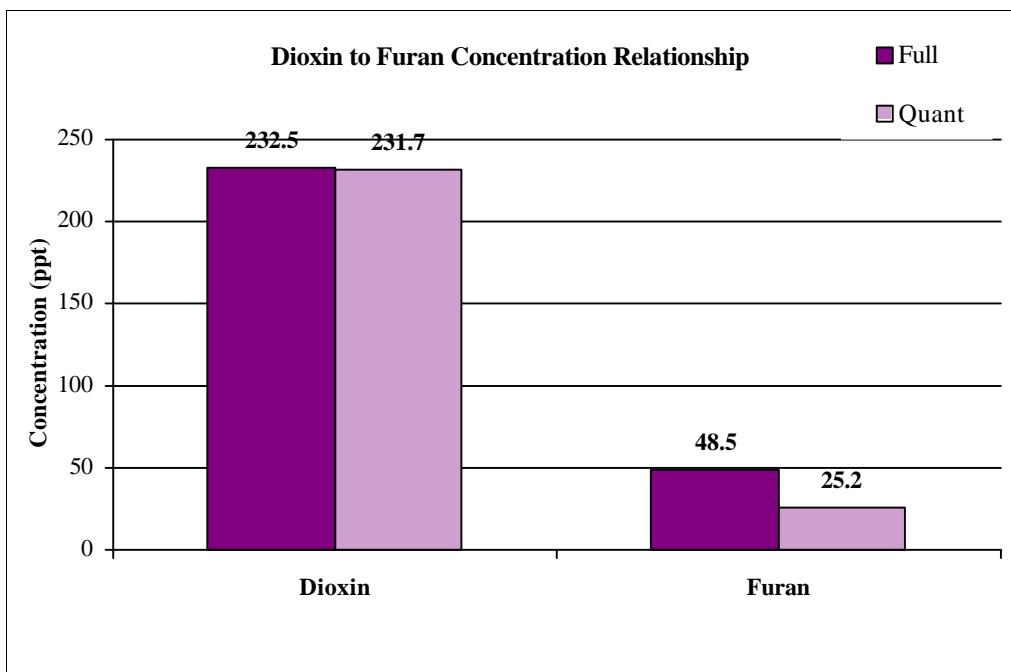
*Sample 461**SP-11*

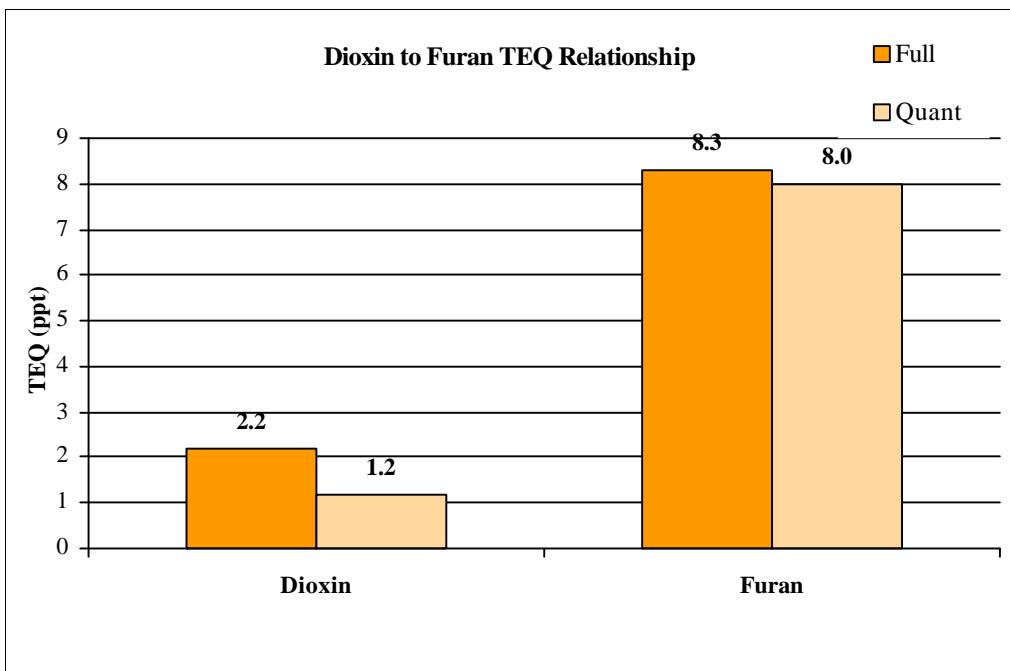
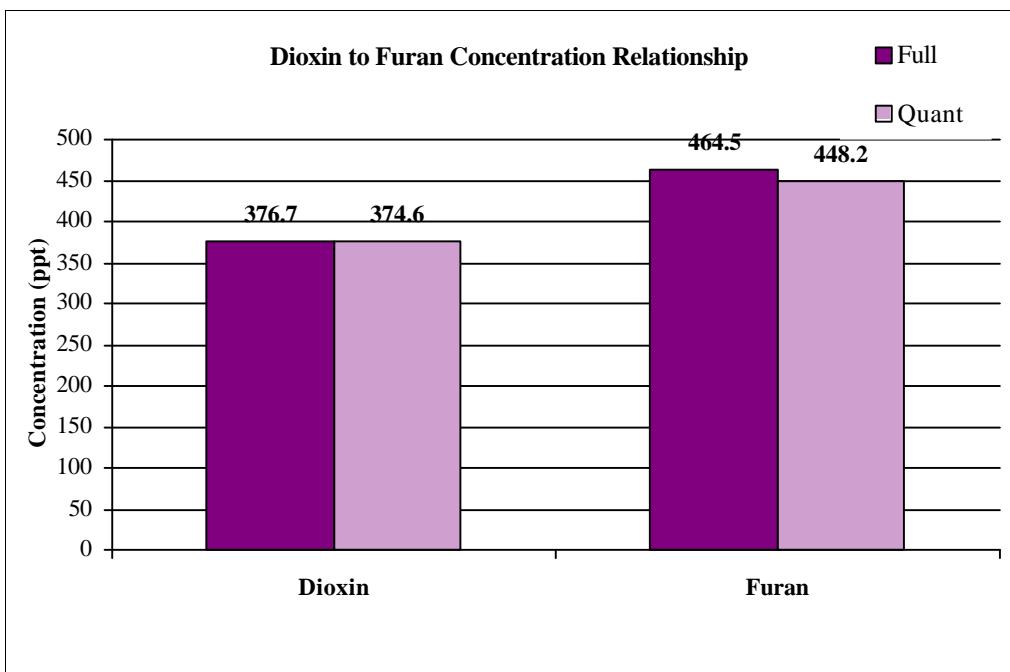
*Sample 692**SP-12*

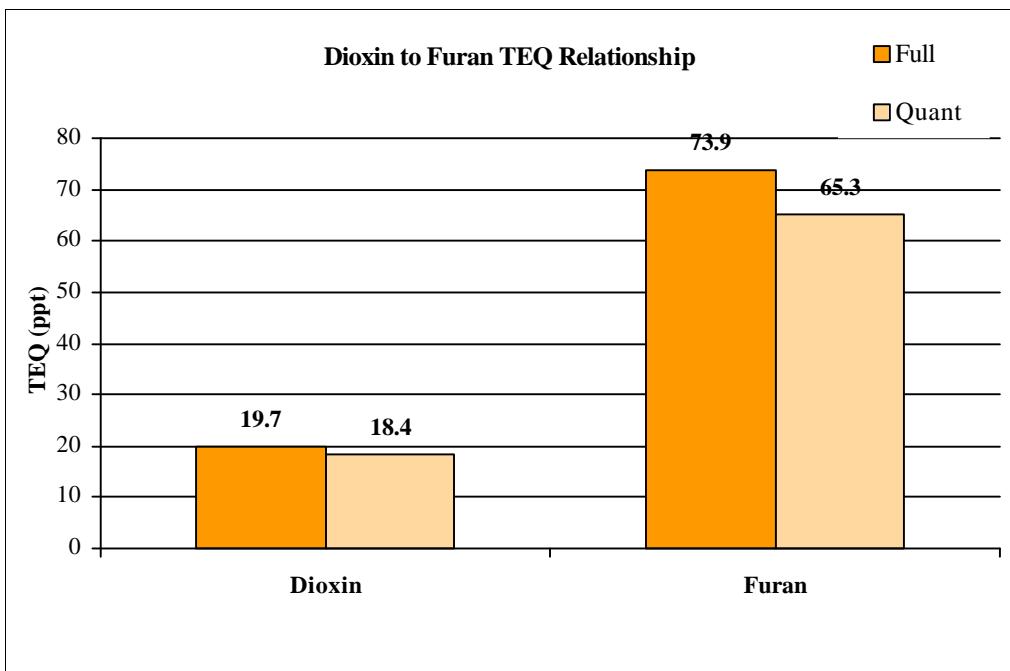
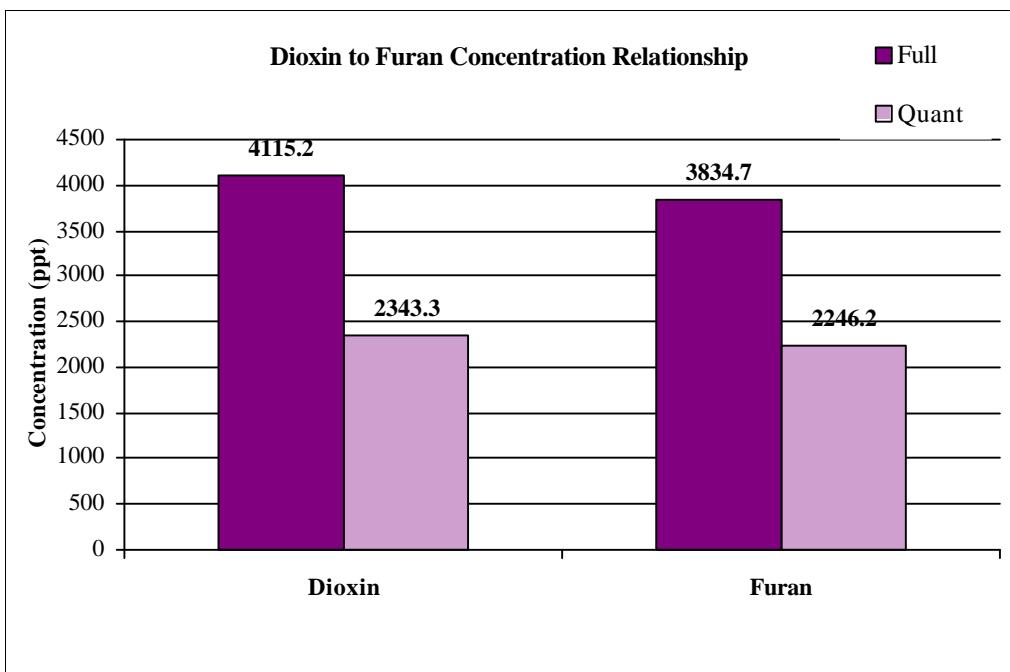
*Sample 515**SP-2*

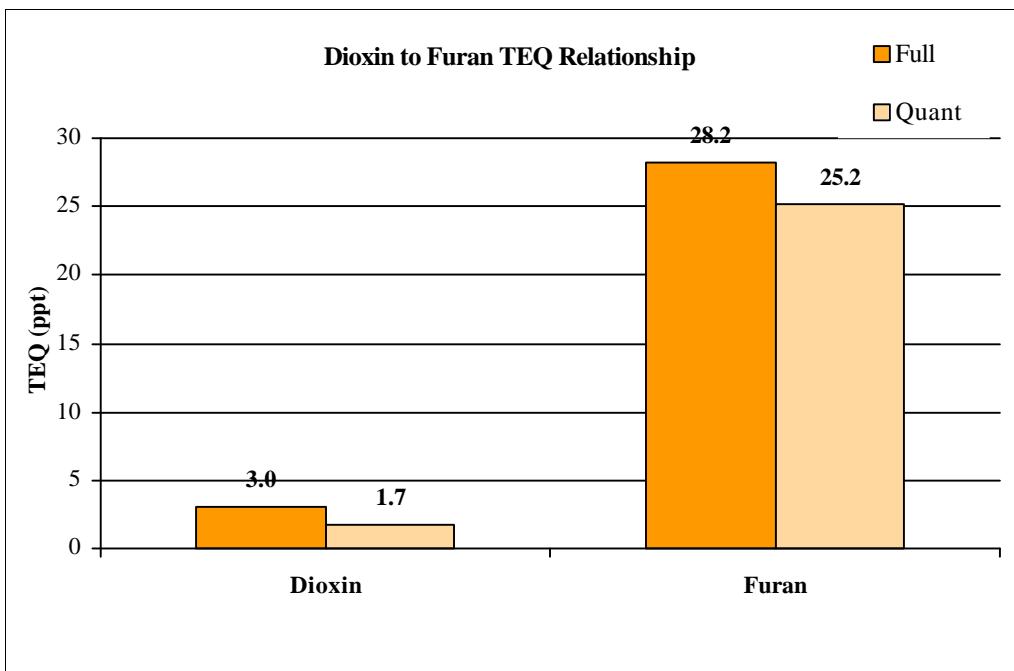
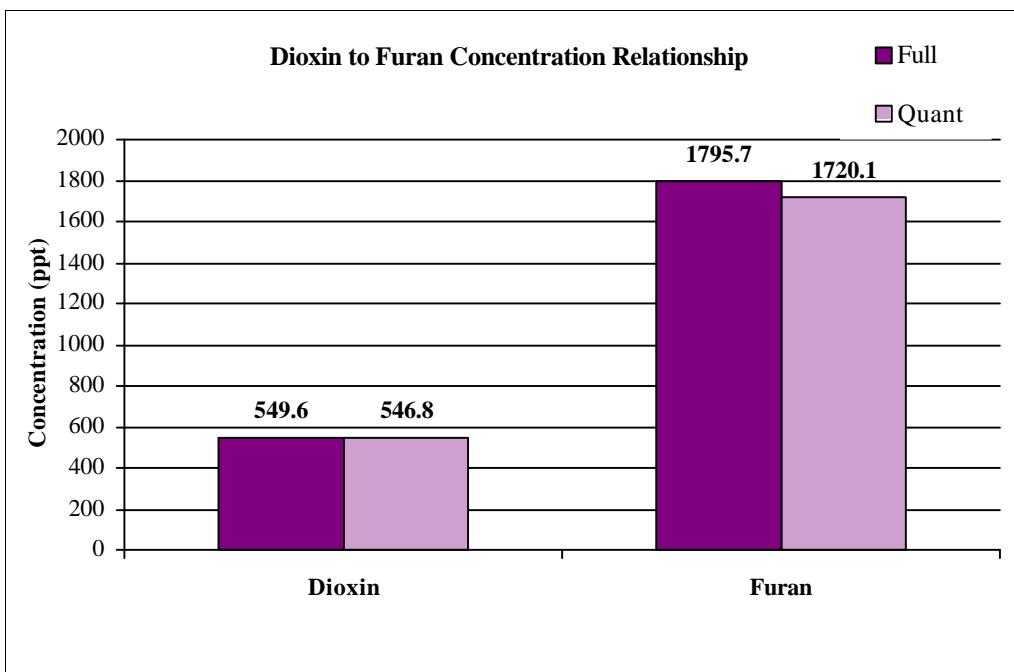
*Sample 282**SP-3*

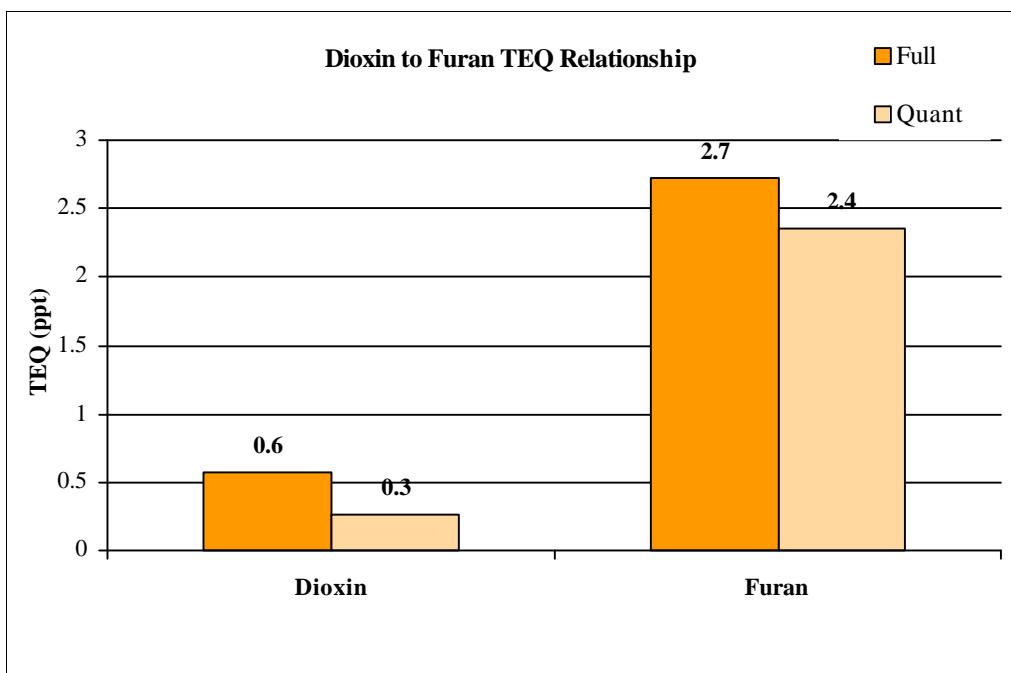
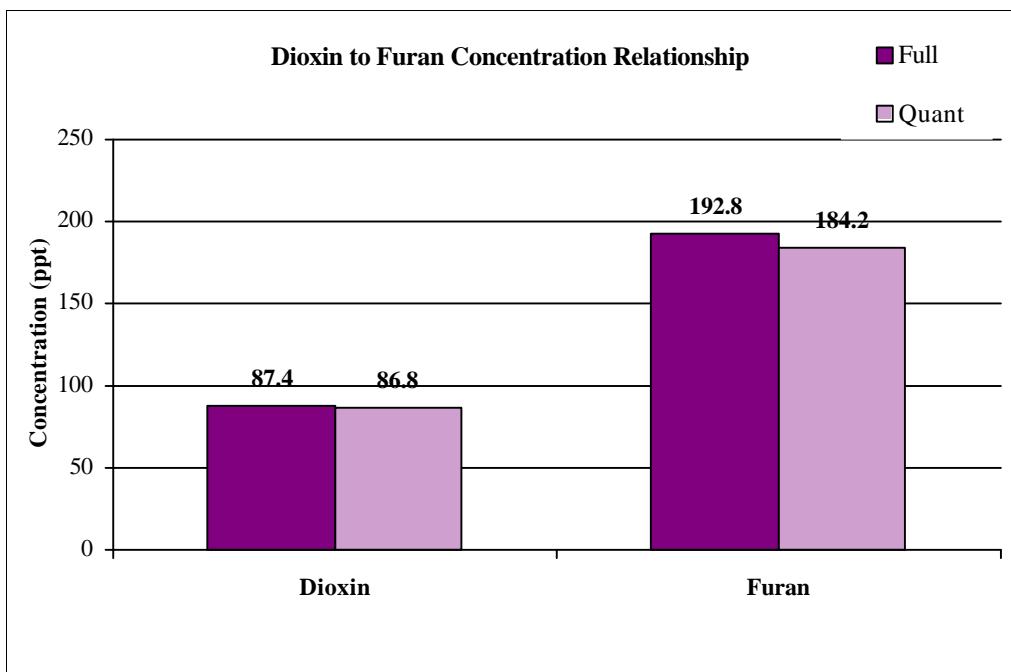
*Sample 909**SP-4*

*Sample 218**SP-5*

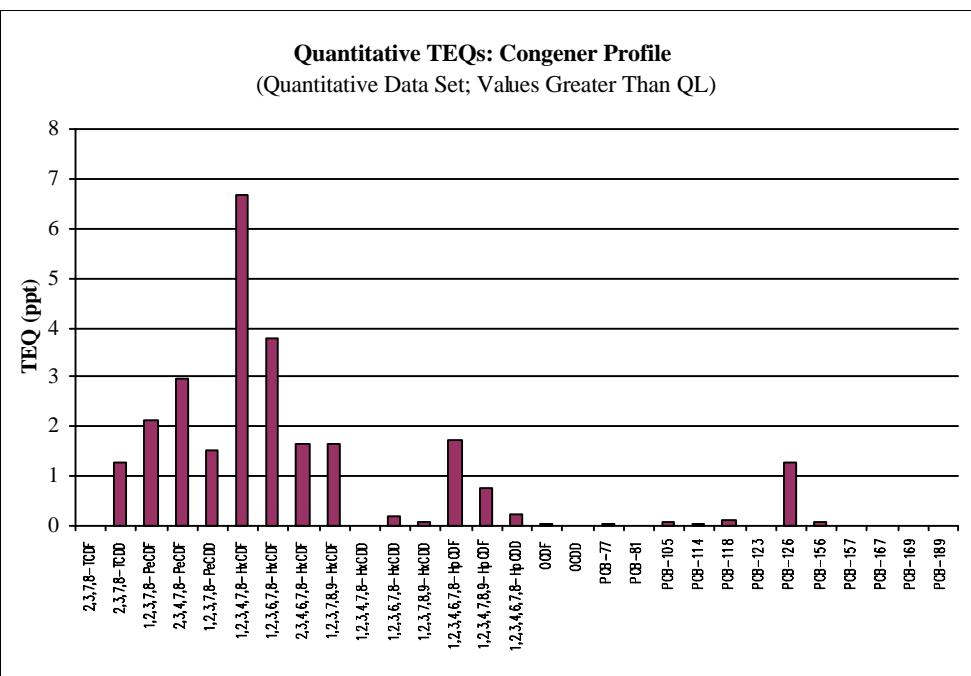
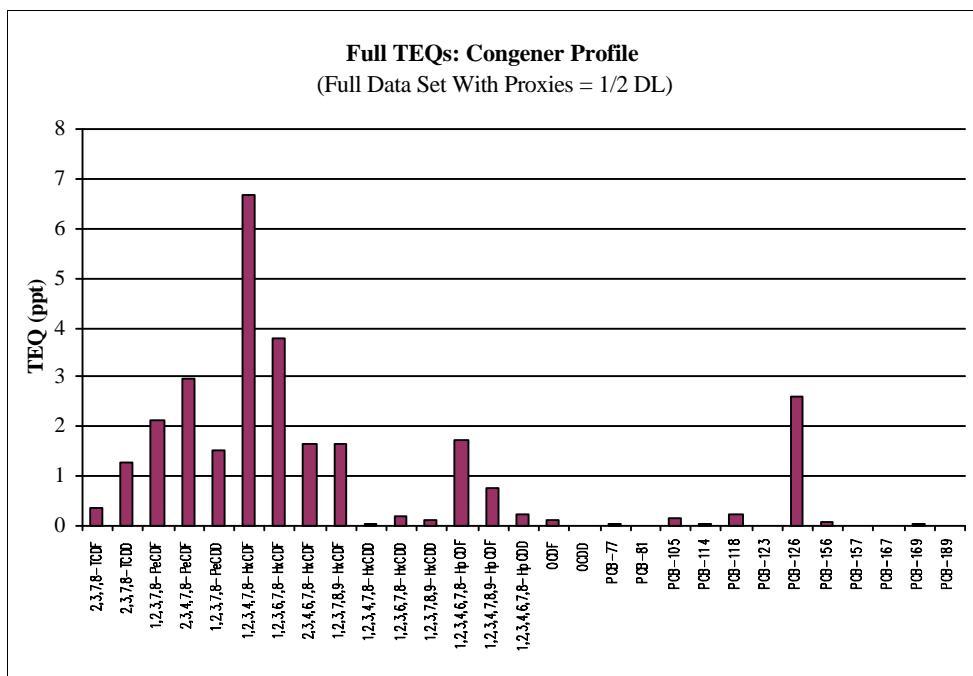
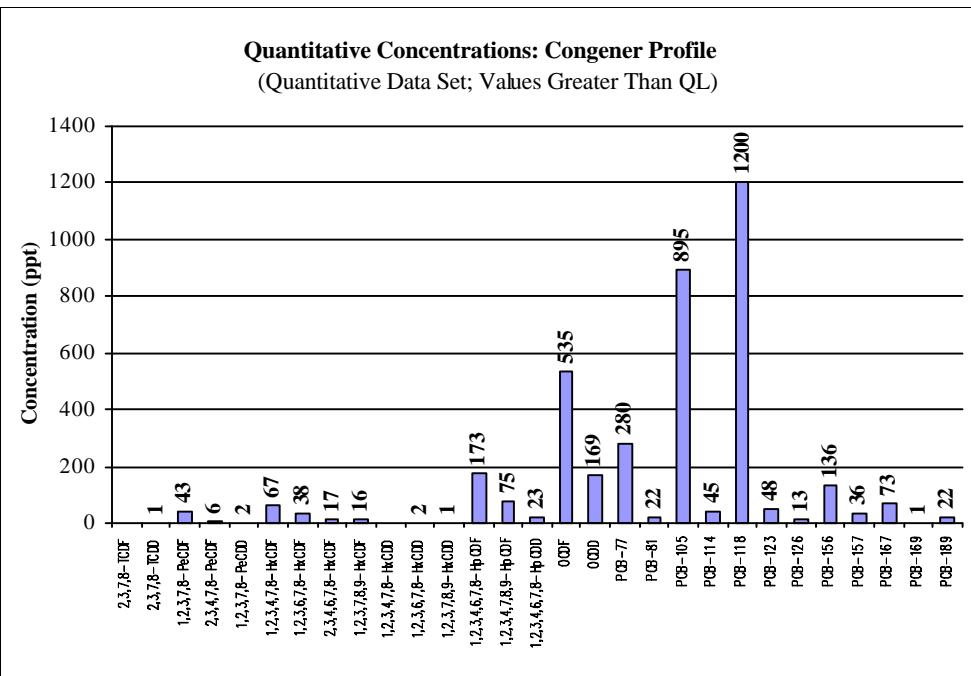
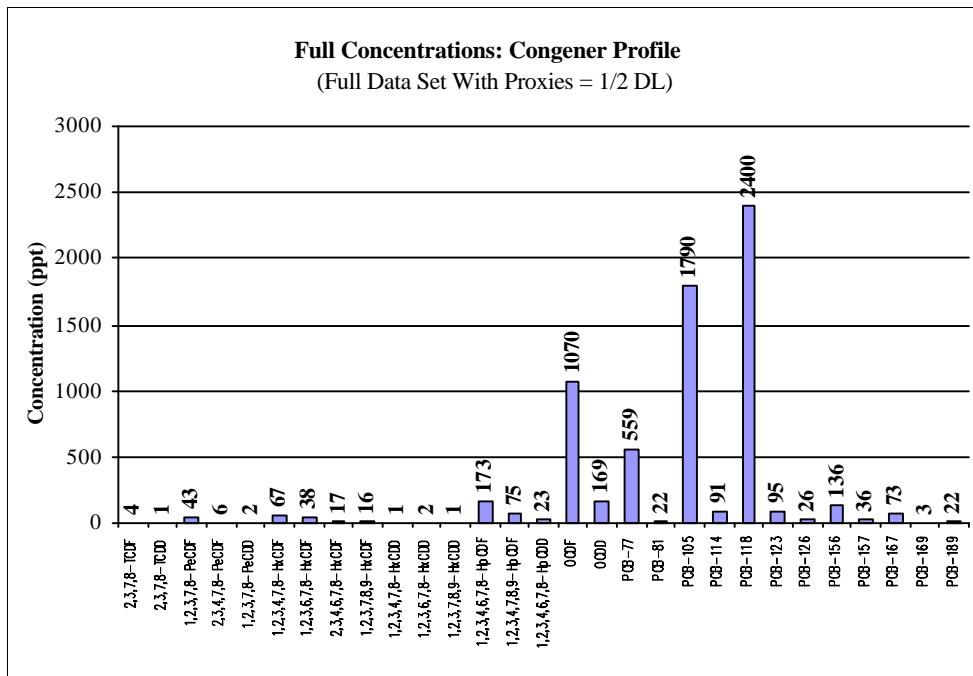
*Sample 523**SP-6*

*Sample 347**SP-7*

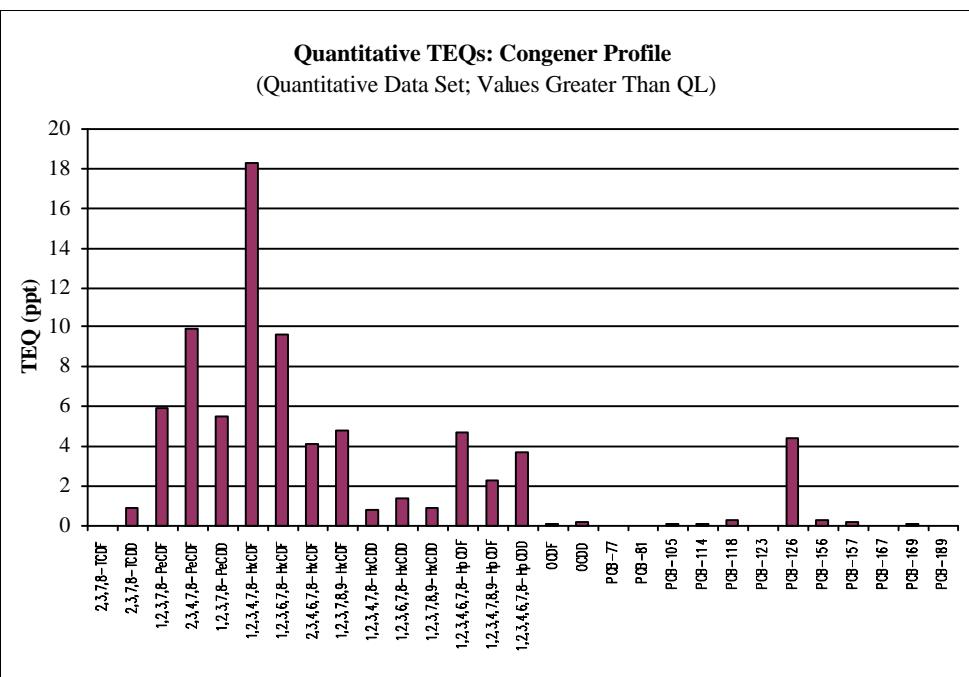
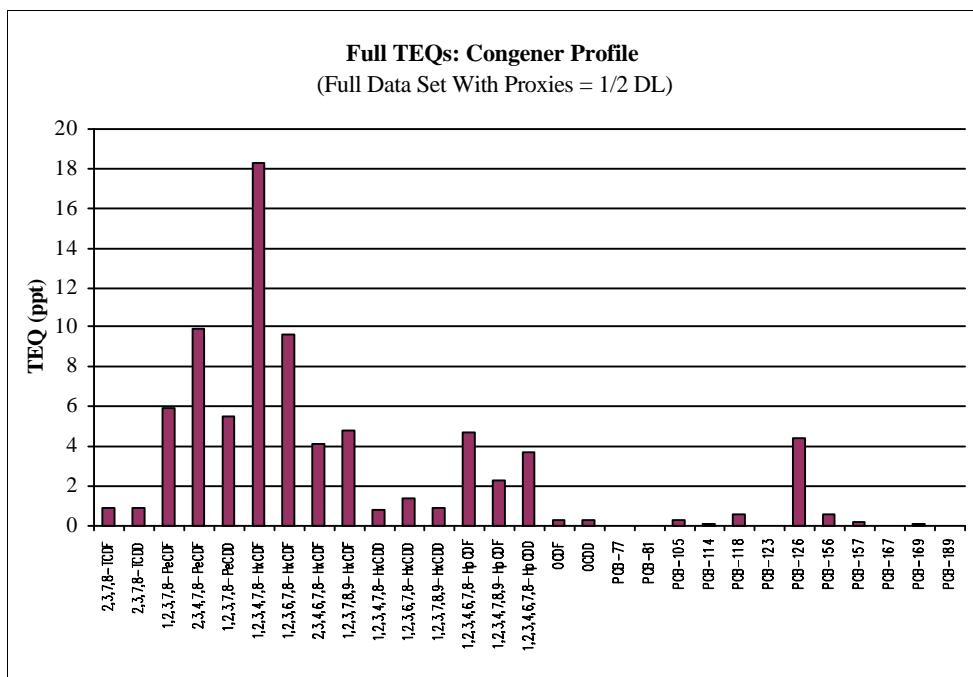
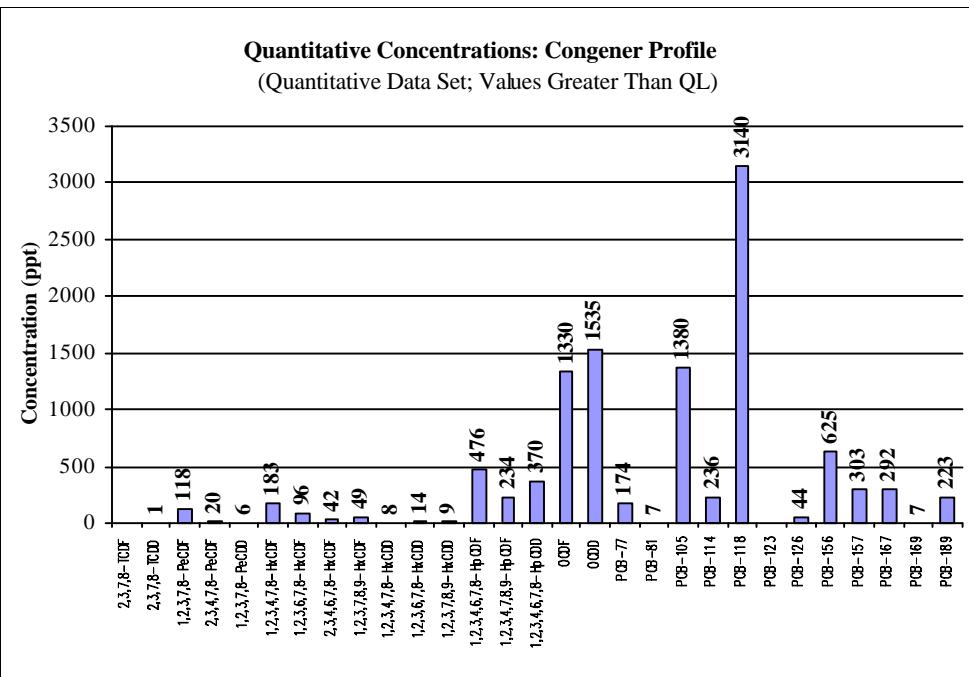
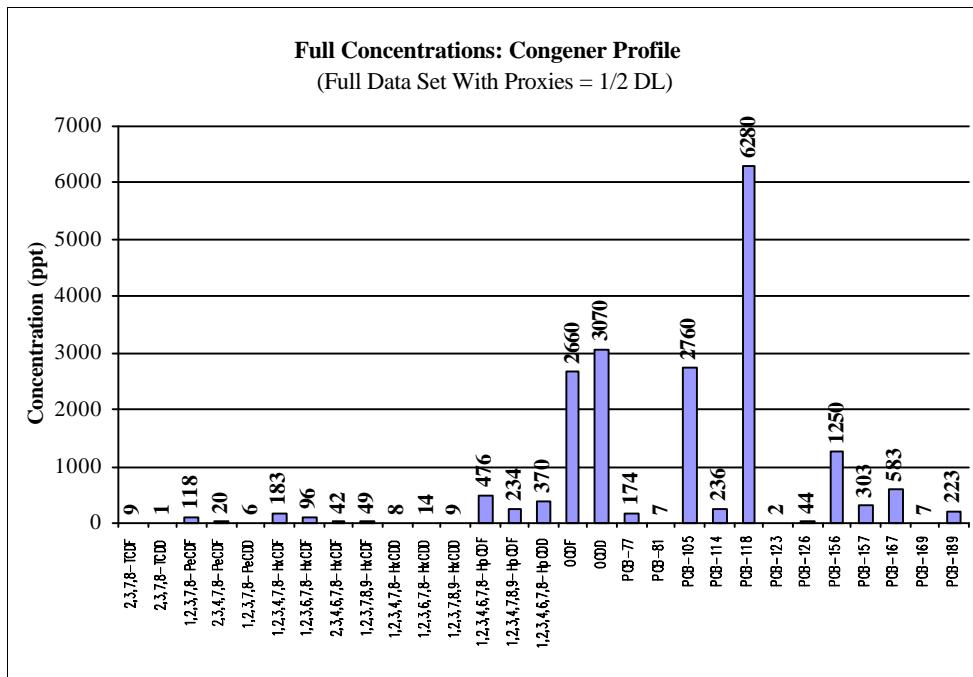
*Sample 555**SP-8*

*Sample 497**SP-9*

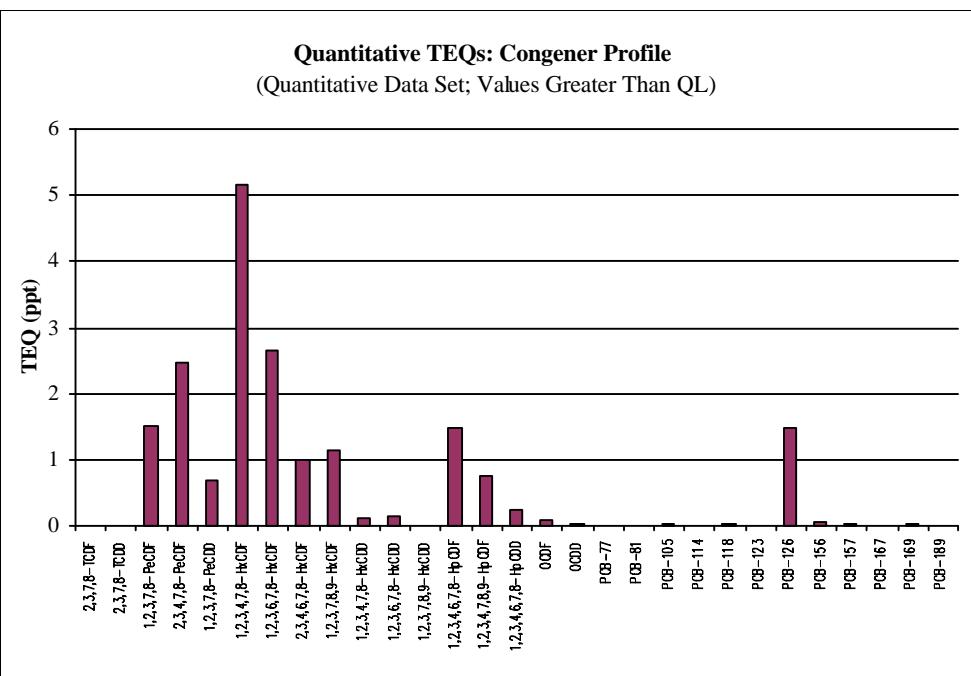
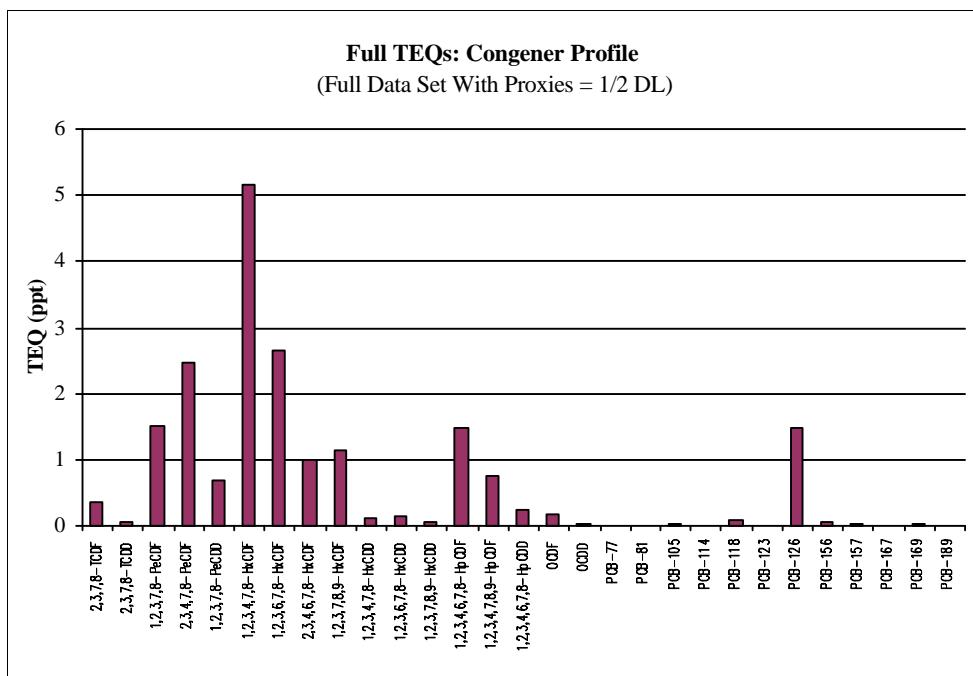
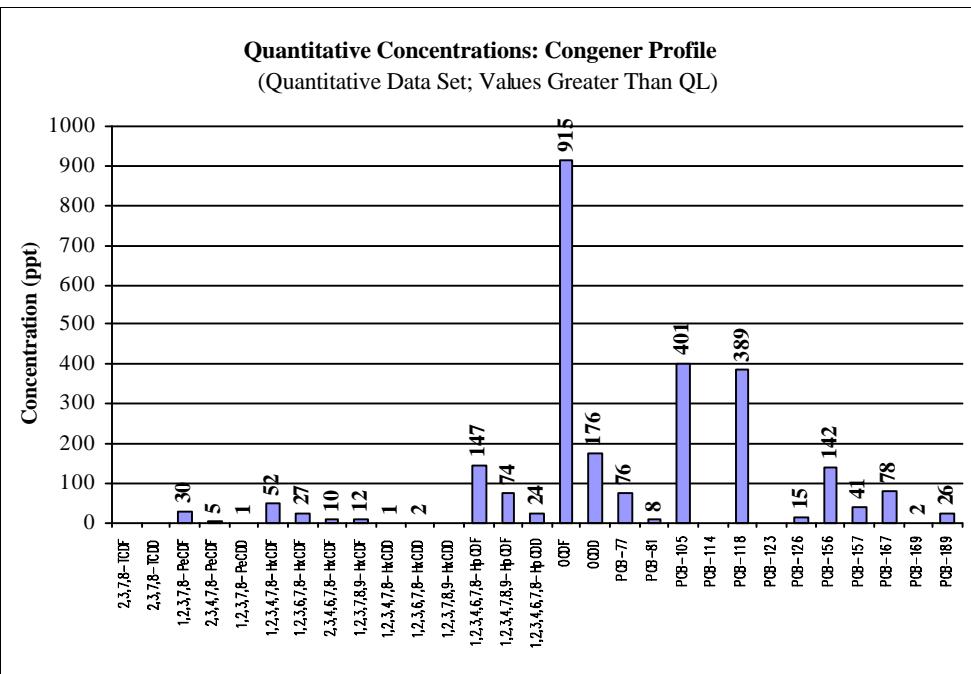
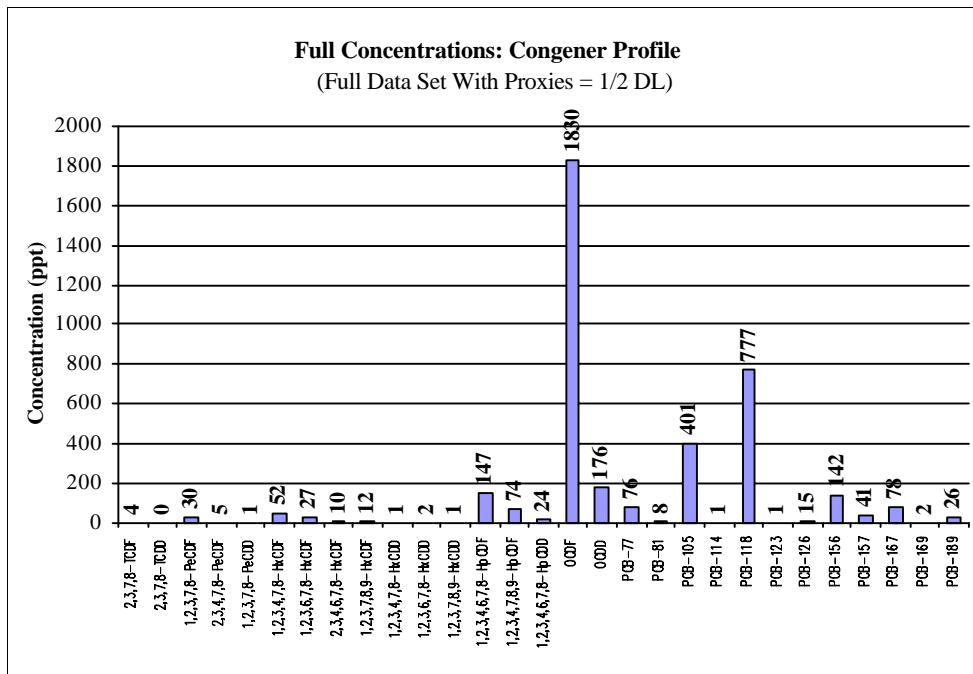
*Sample*      *282-B*      *SP-3*      *Bulk*



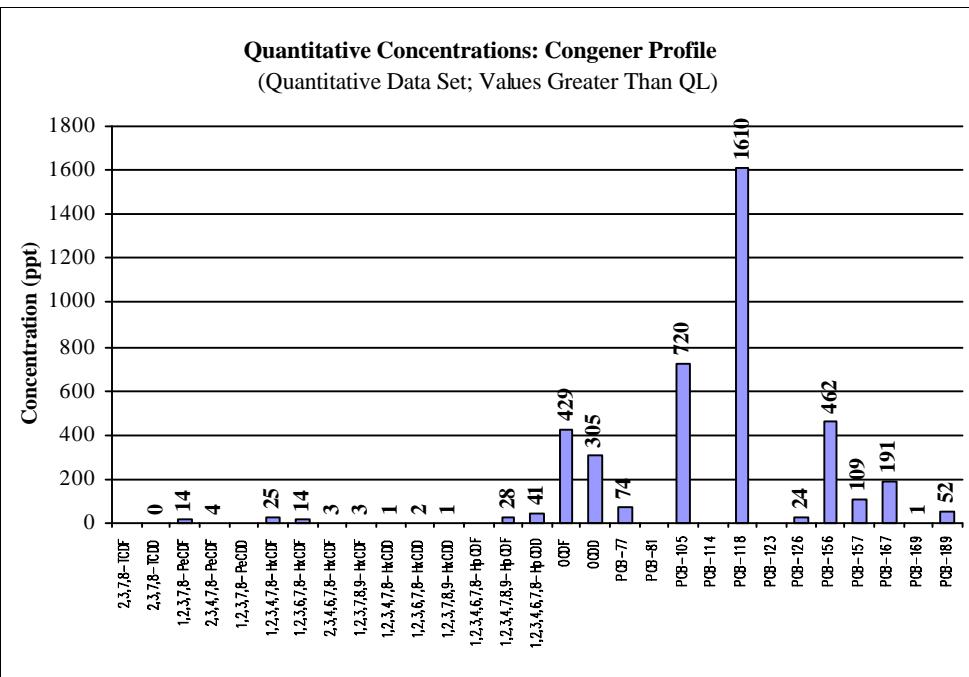
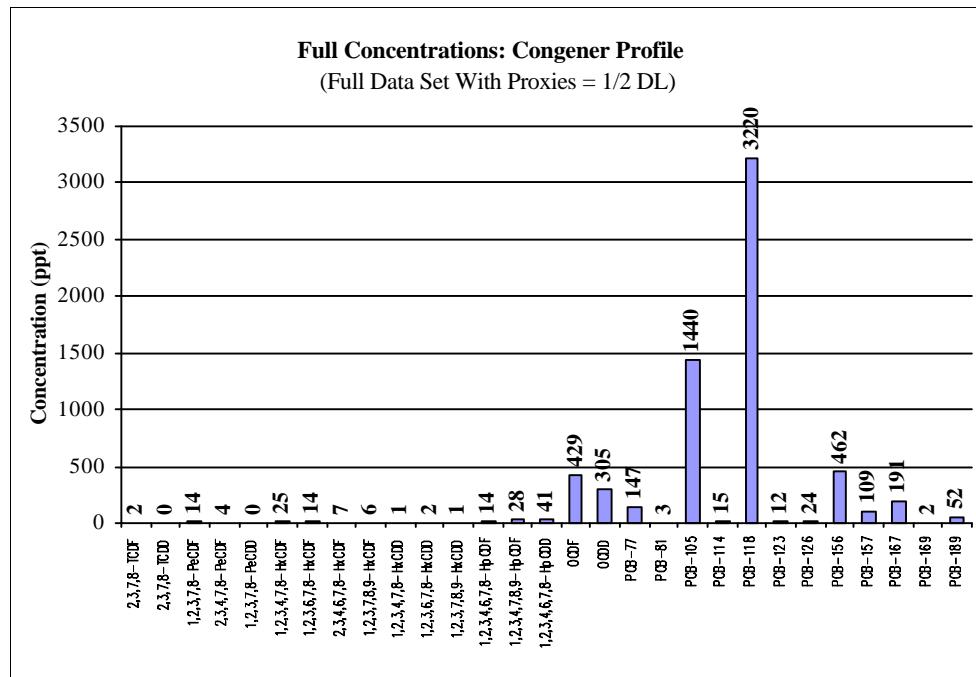
*Sample*      **347-B**      **SP-7**      **Bulk**



*Sample*      **515-B**      **SP-2**      **Bulk**

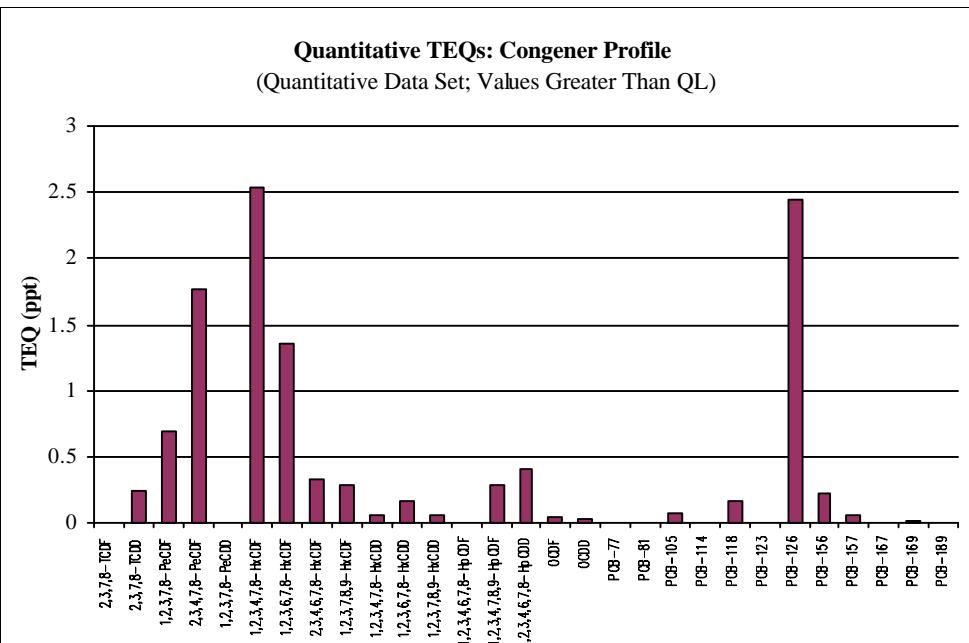
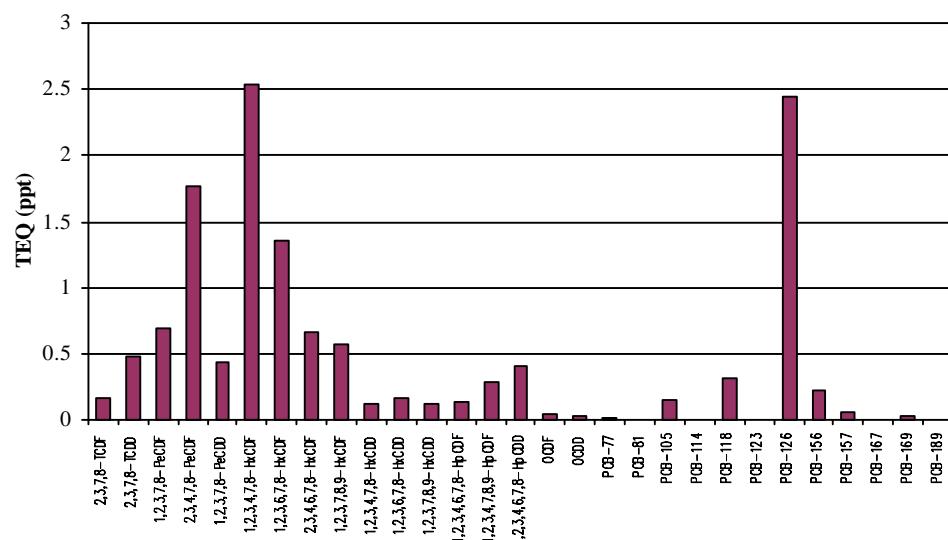


*Sample*      **523-B**      **SP-6**      **Bulk**



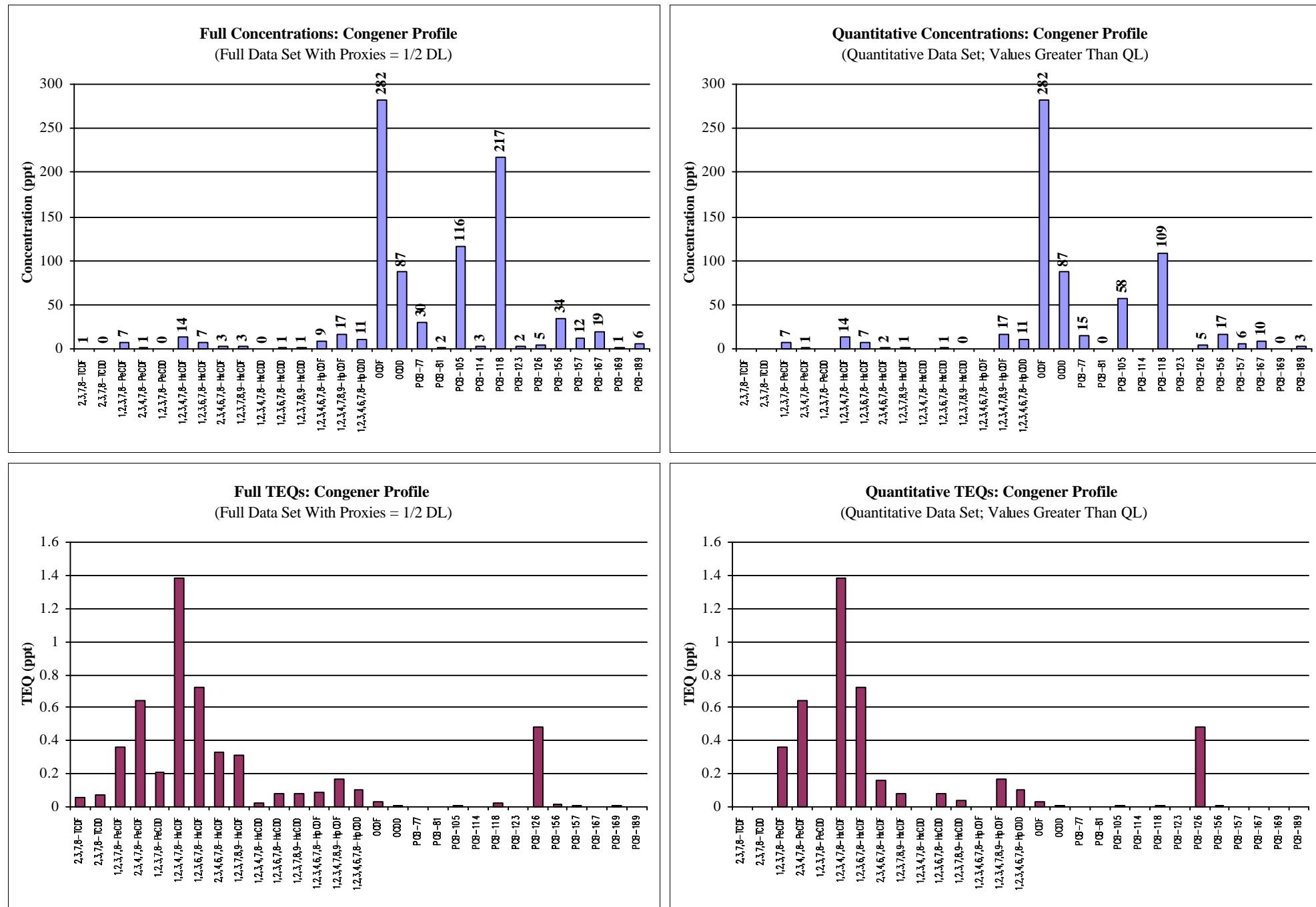
## **Full TEQs: Congener Profile**

(Full Data Set With Proxies = 1/2 DL)



## Appendix B4. Congener Profiles for QC Samples

*Sample*      883      SP-4      *Duplicate*

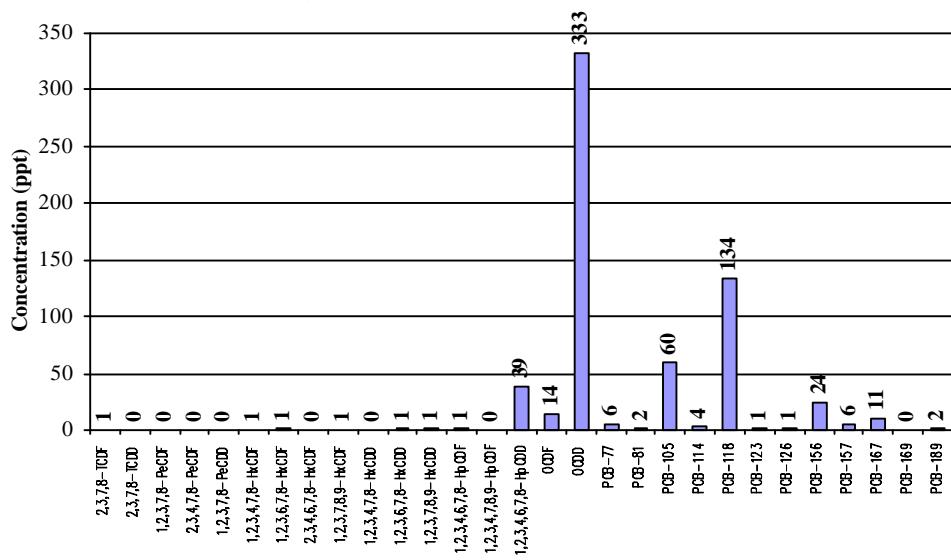


## Appendix B4. Congener Profiles for QC Samples

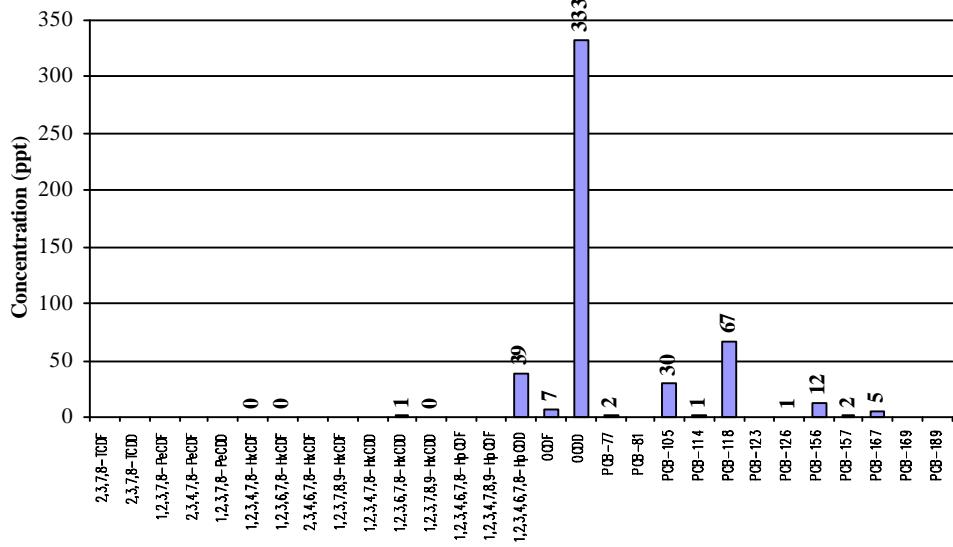
*Sample*      **364**      *f blank*      *Field Blank*

**Full Concentrations: Congener Profile**

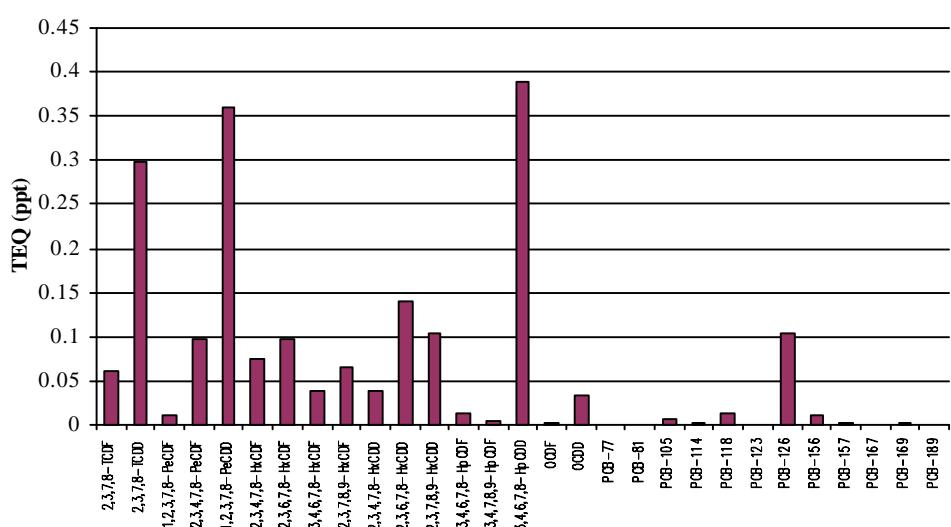
(Full Data Set With Proxies = 1/2 DL)

**Quantitative Concentrations: Congener Profile**

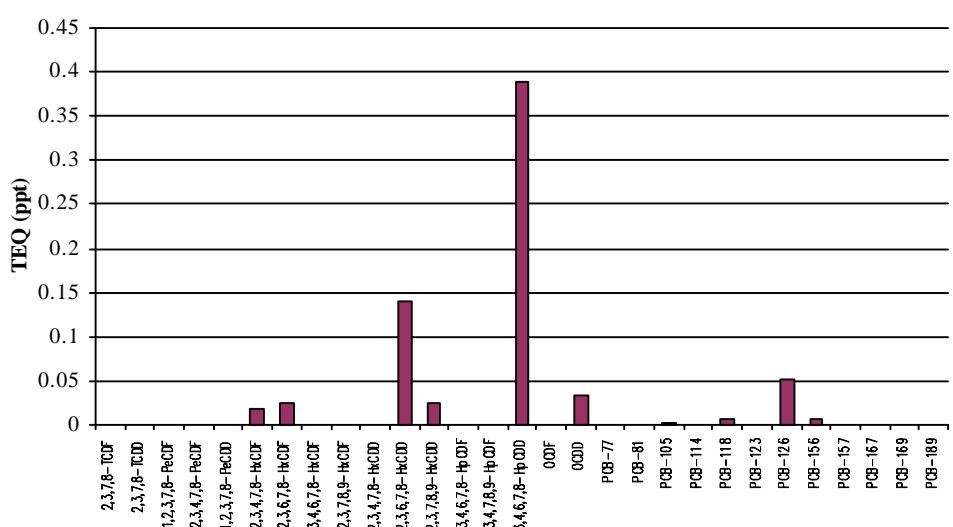
(Quantitative Data Set; Values Greater Than QL)

**Full TEQs: Congener Profile**

(Full Data Set With Proxies = 1/2 DL)

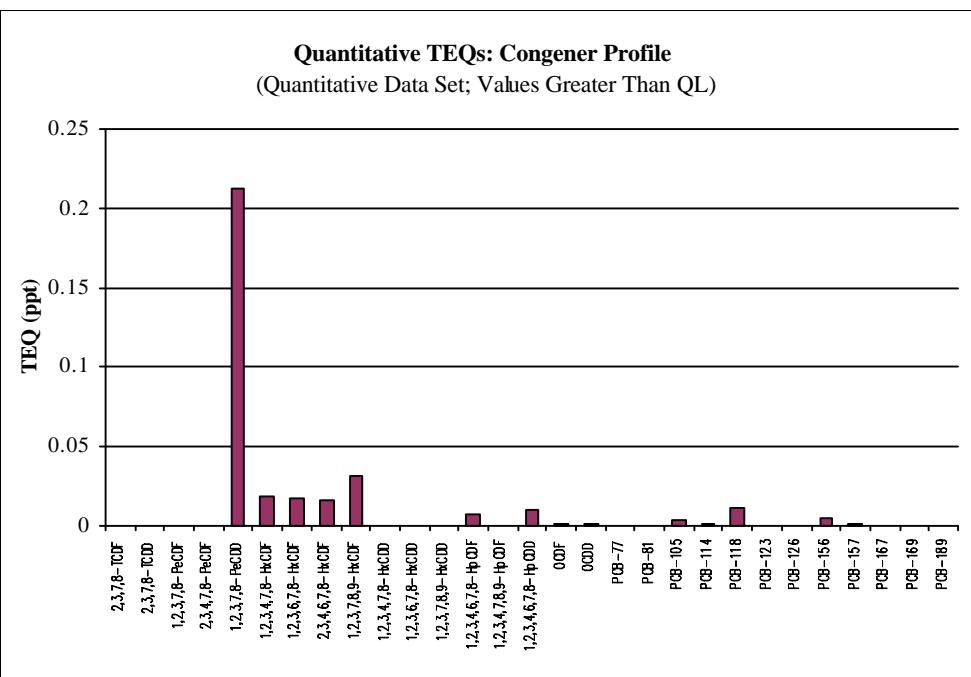
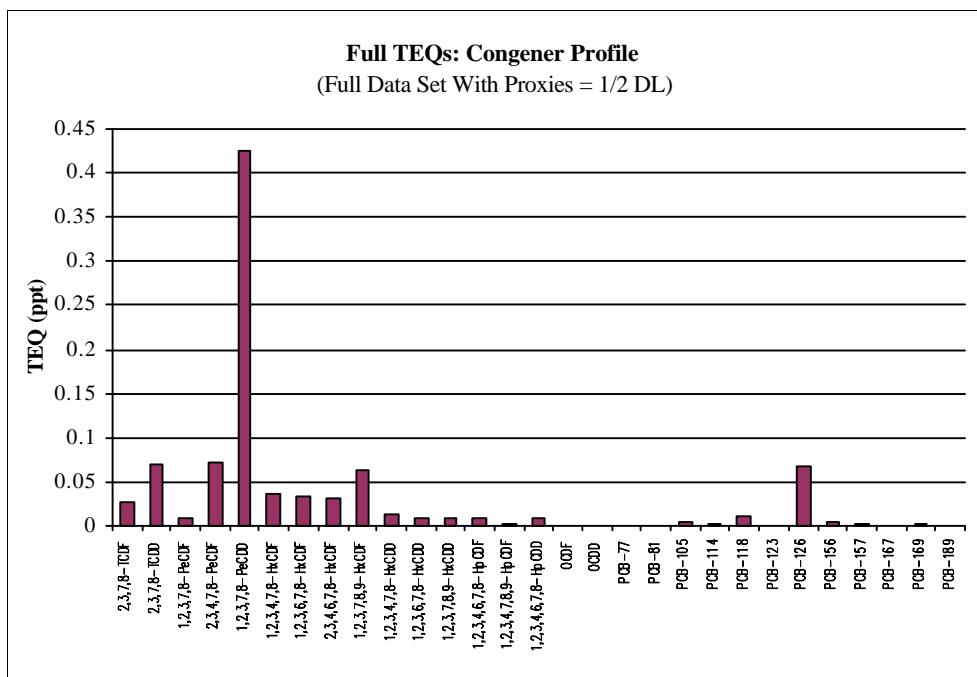
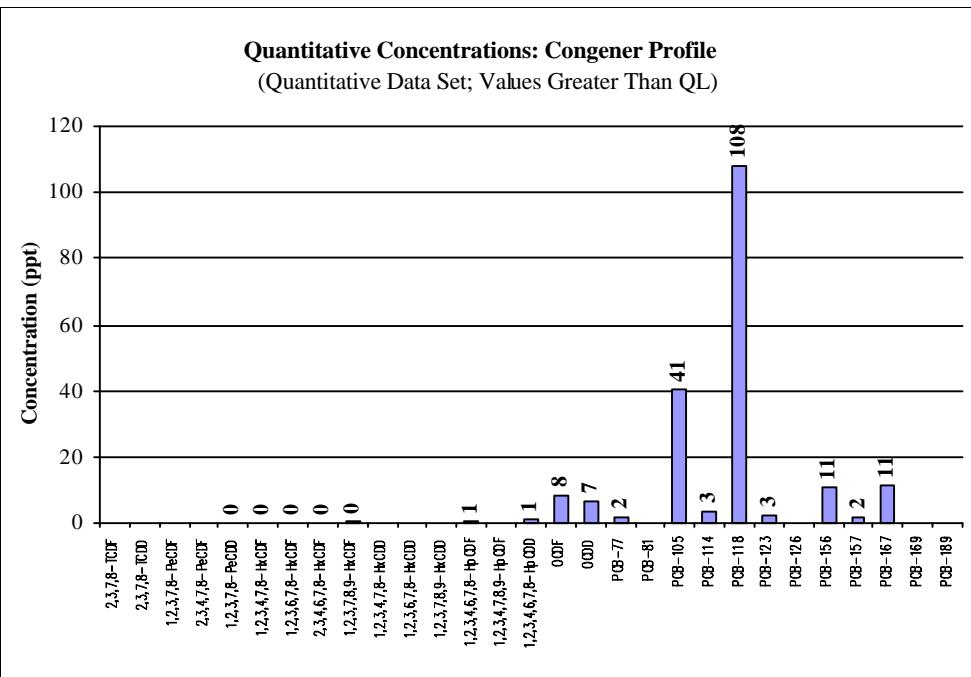
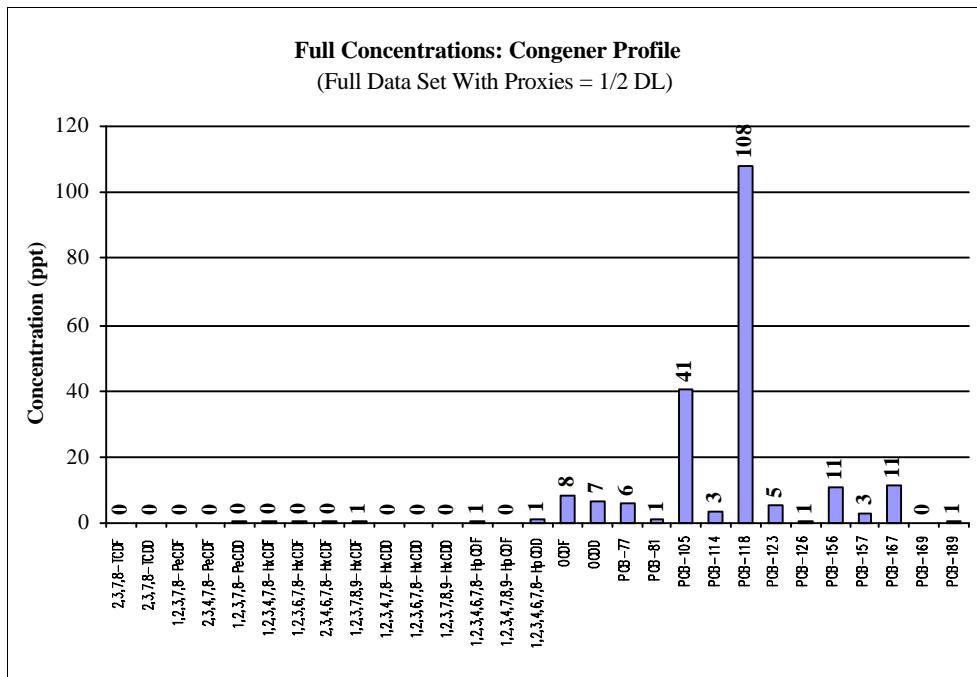
**Quantitative TEQs: Congener Profile**

(Quantitative Data Set; Values Greater Than QL)



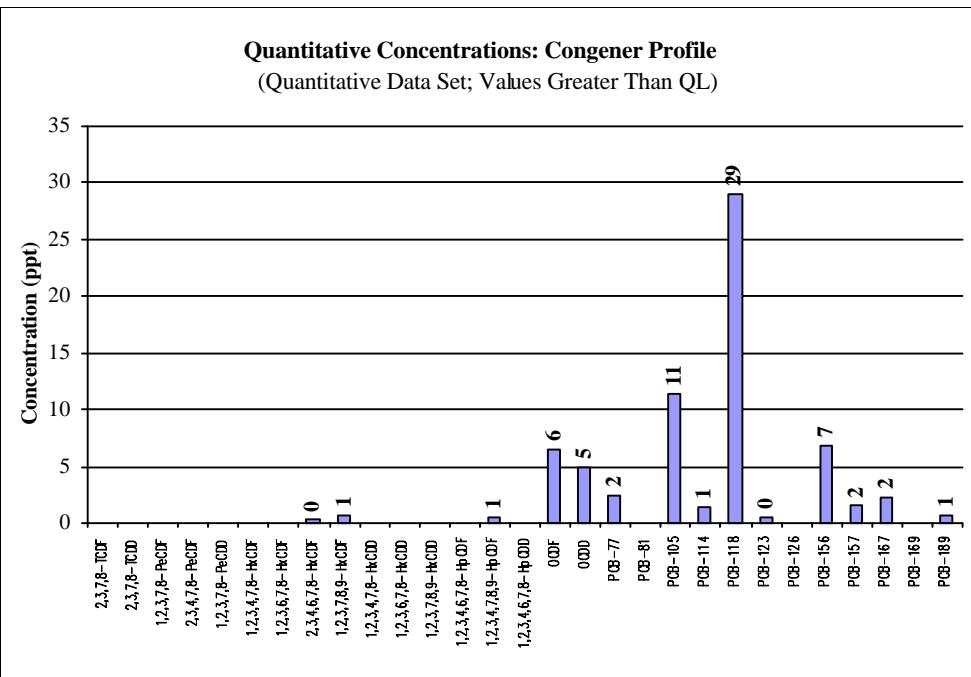
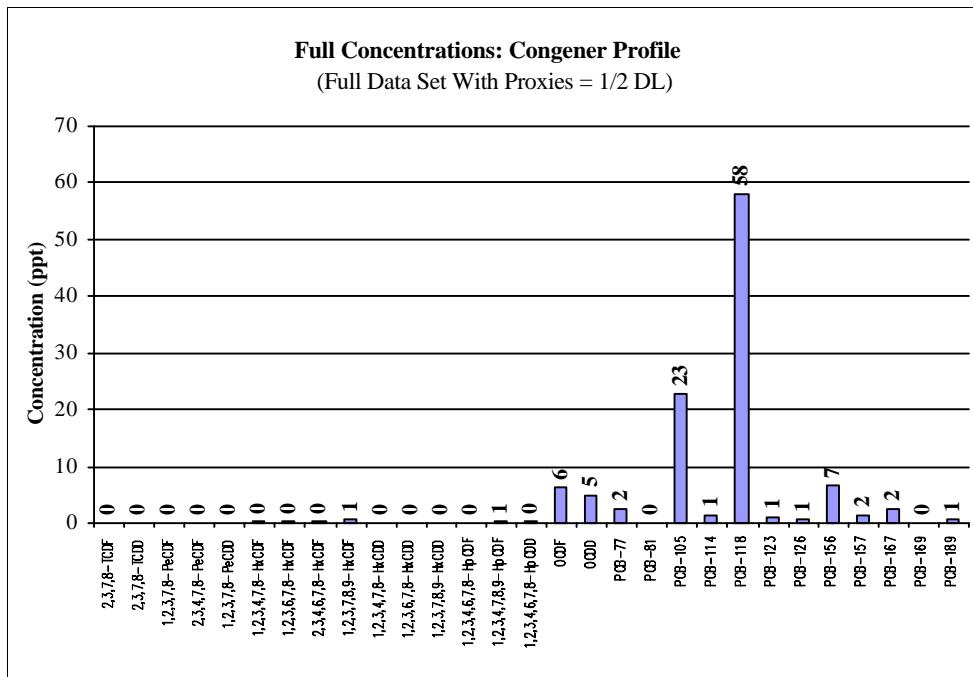
### *Sample GAANLMB*

## *Lab Blank*



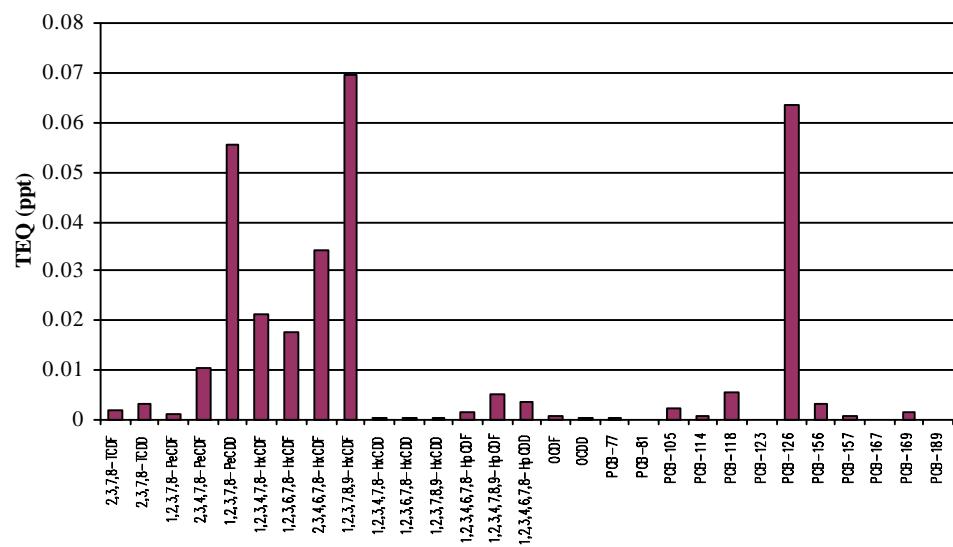
### *Sample GAAOMB*

## *Lab Blank*

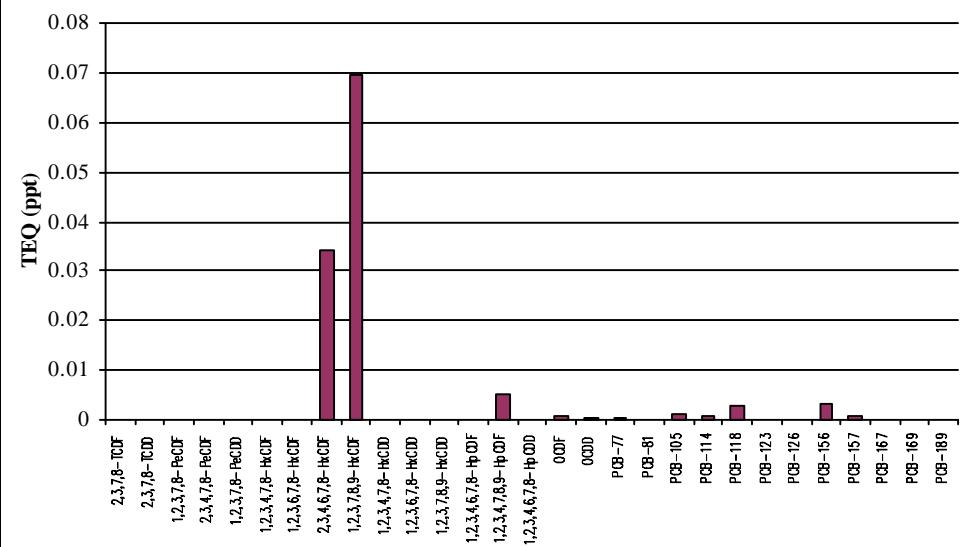


## **Full TEQs: Congener Profile**

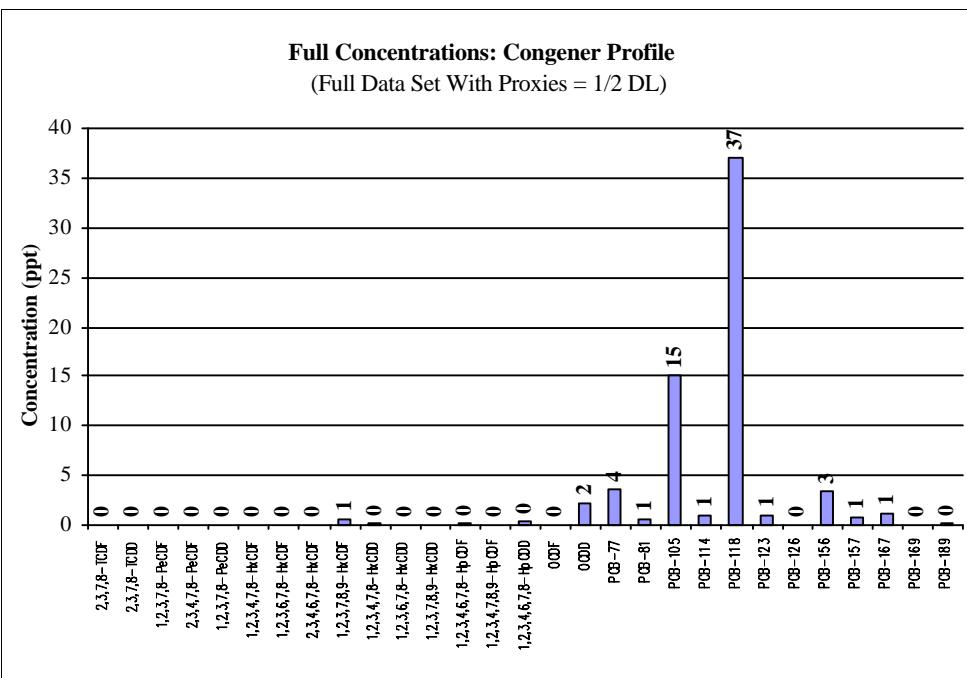
(Full Data Set With Proxies = 1/2 DL)



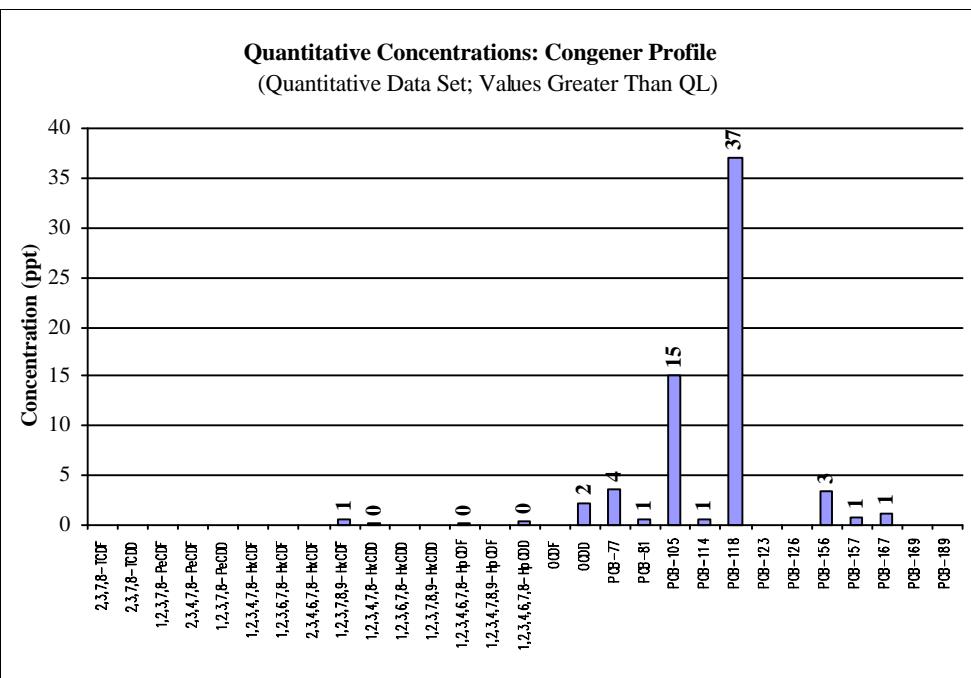
## Quantitative TEQs: Congener Profile



### *Sample GAAWMB*

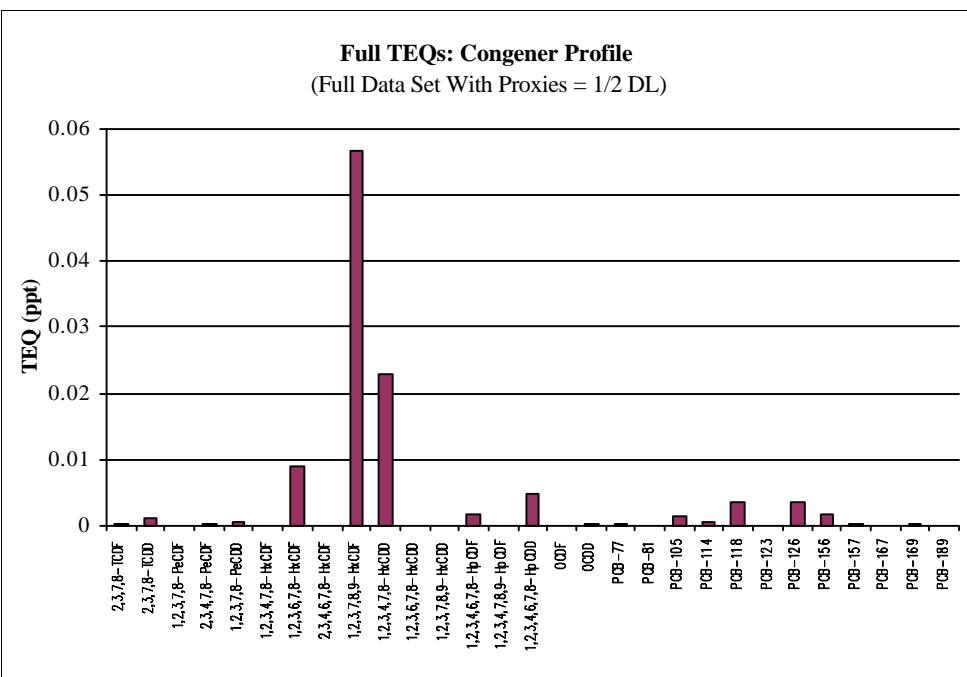


## *Lab Blank*

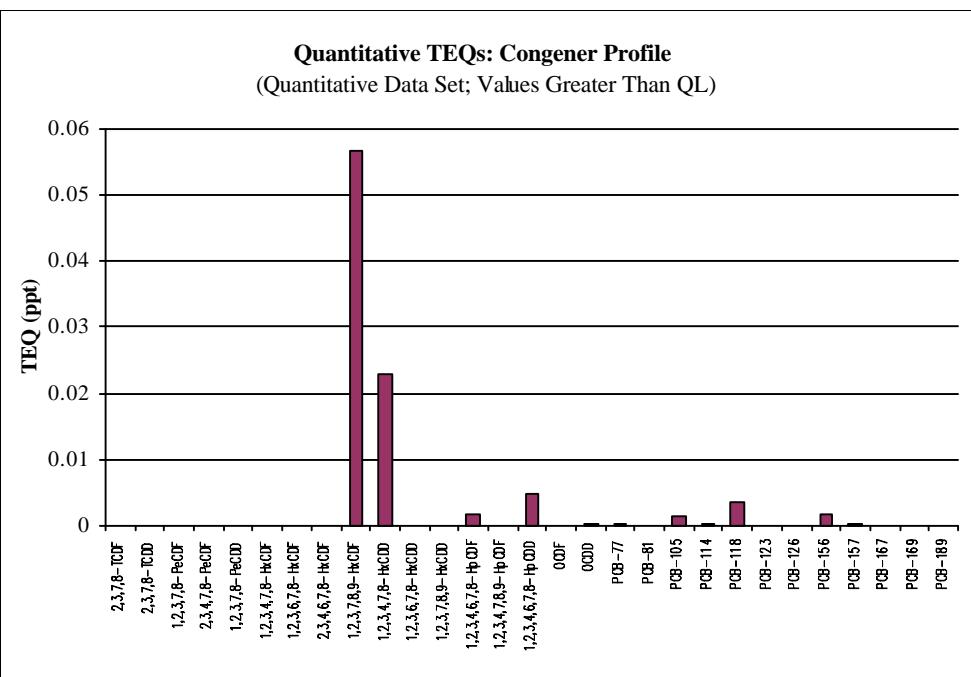


## **Full TEQs: Congener Profile**

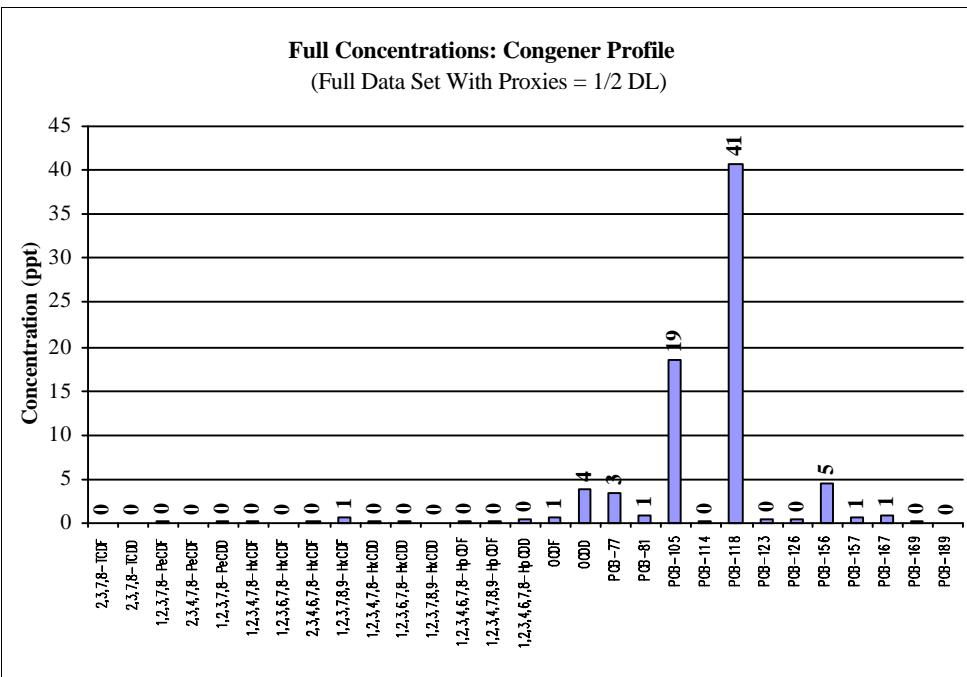
(Full Data Set With Proxies = 1/2 DL)



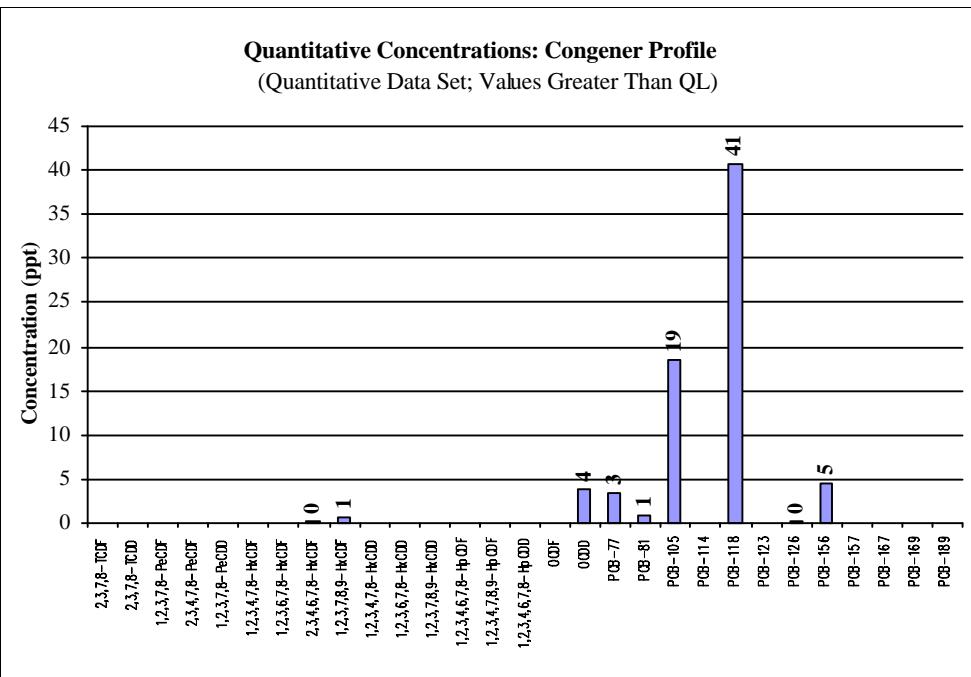
## Quantitative TEQs: Congener Profile



### *Sample GBAEMB*

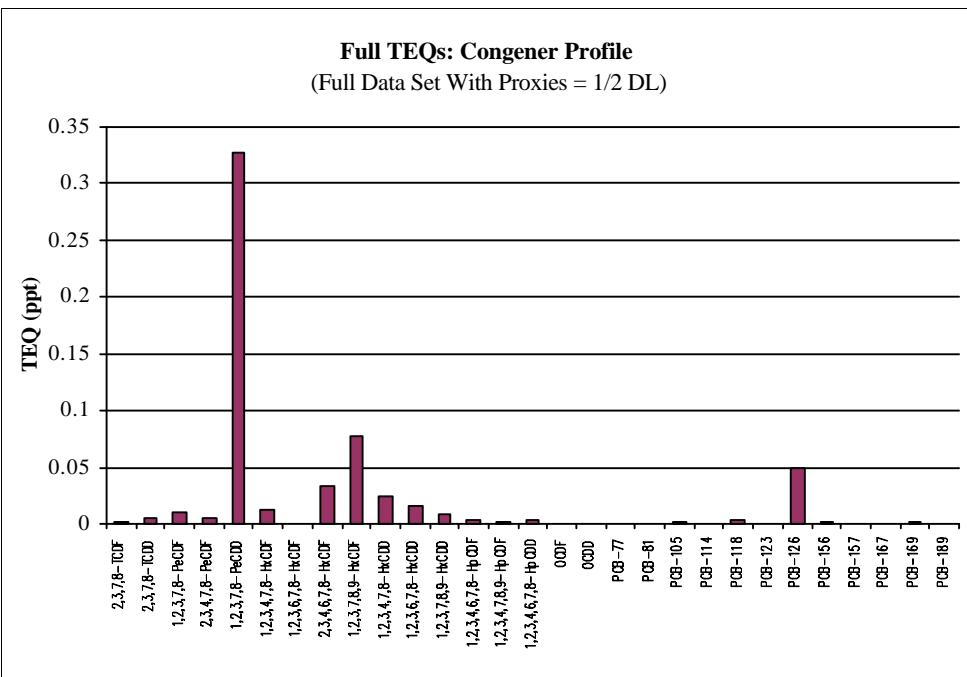


## *Lab Blank*

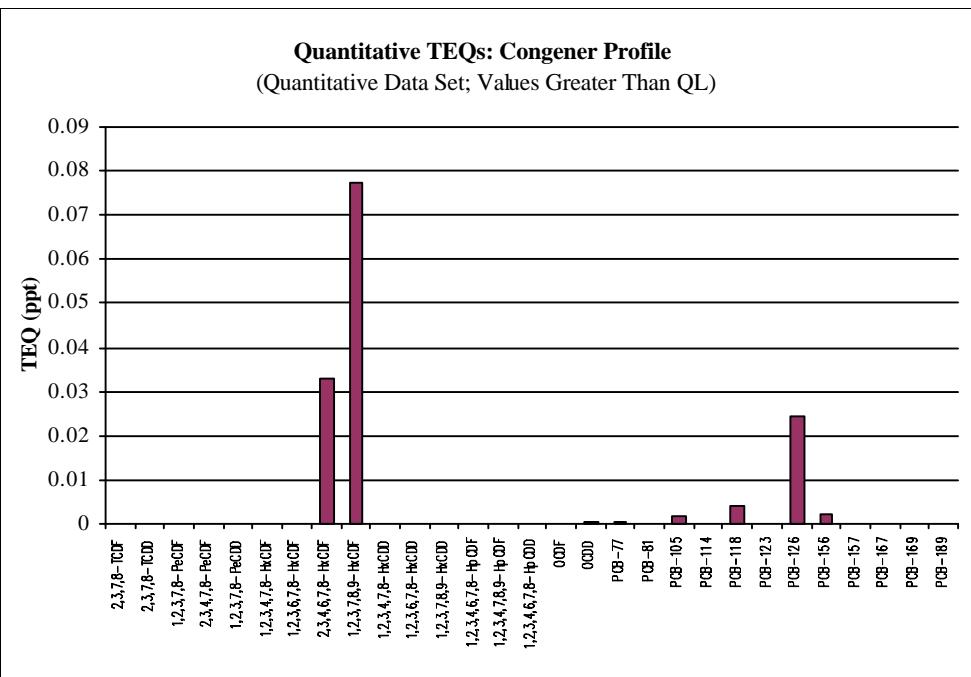


## **Full TEQs: Congener Profile**

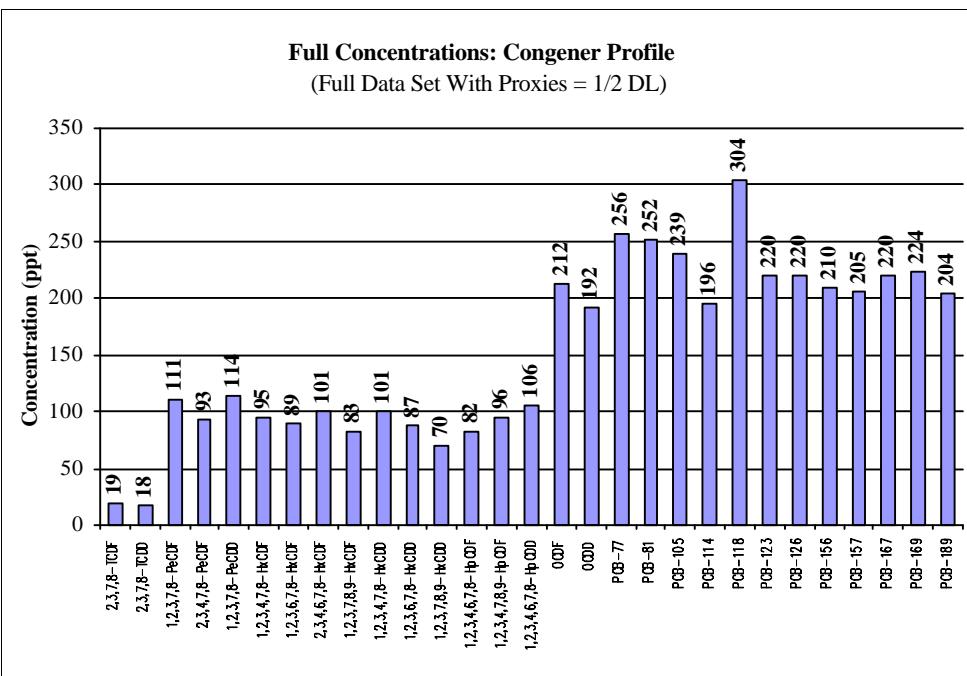
(Full Data Set With Proxies = 1/2 DL)



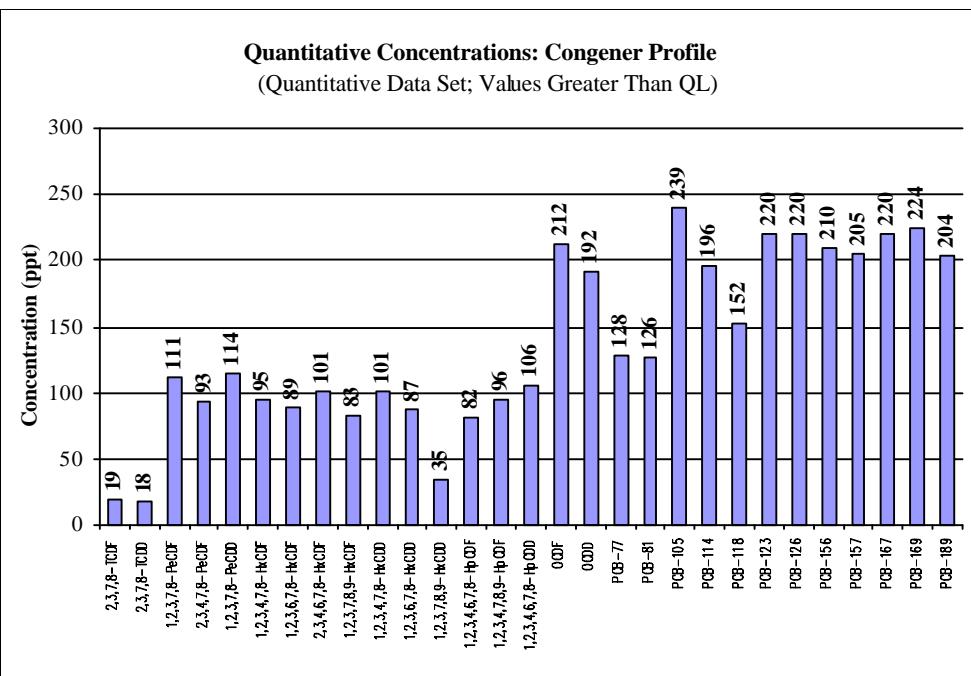
## Quantitative TEQs: Congener Profile



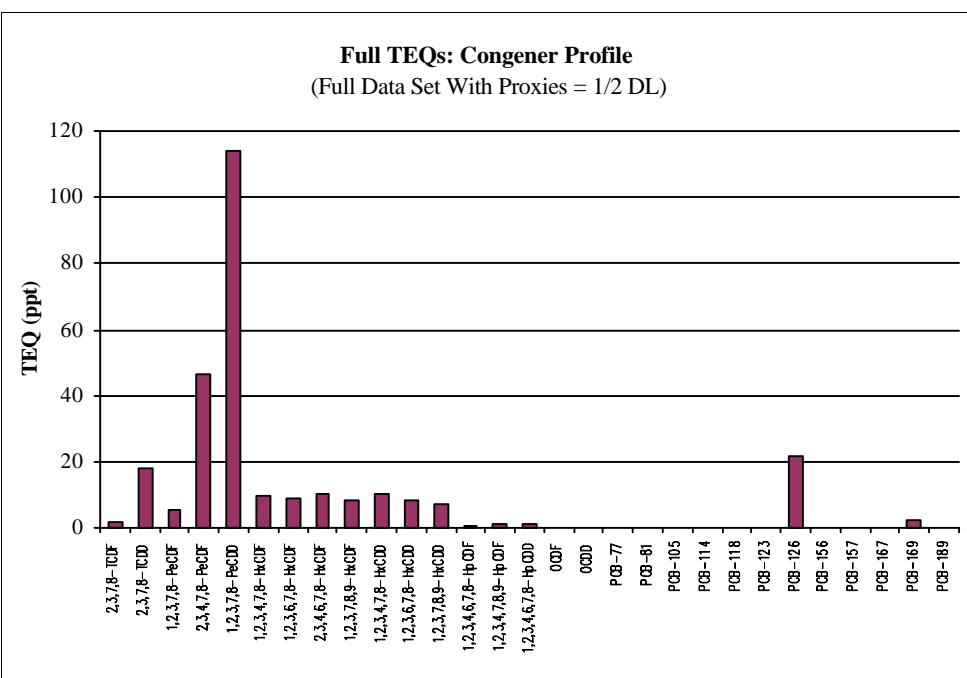
### *Sample GAANLCS*



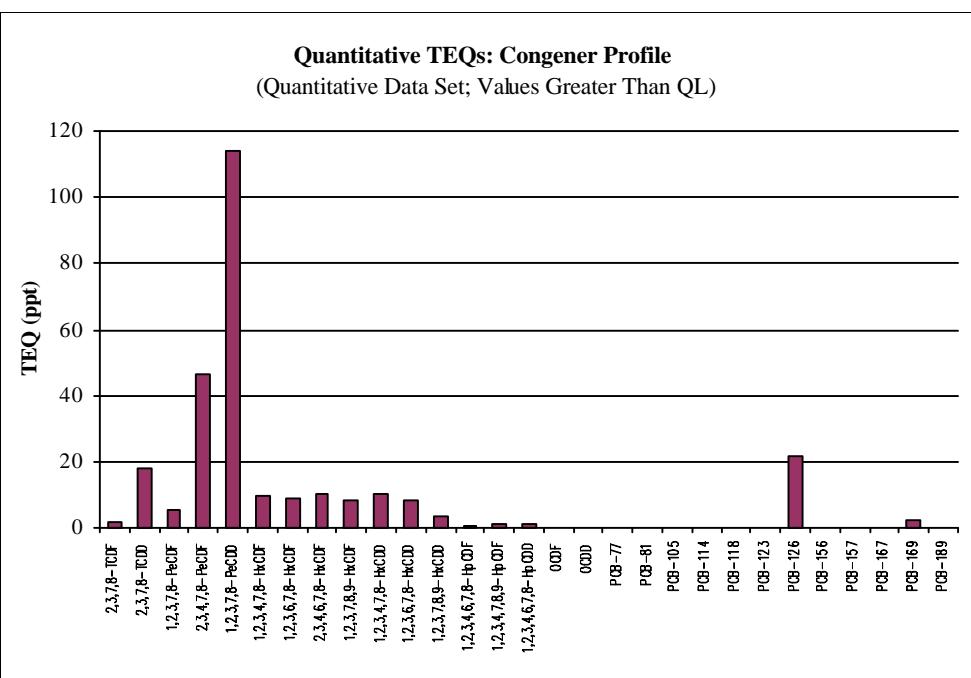
## *Lab Spike*



## **Full TEQs: Congener Profile**

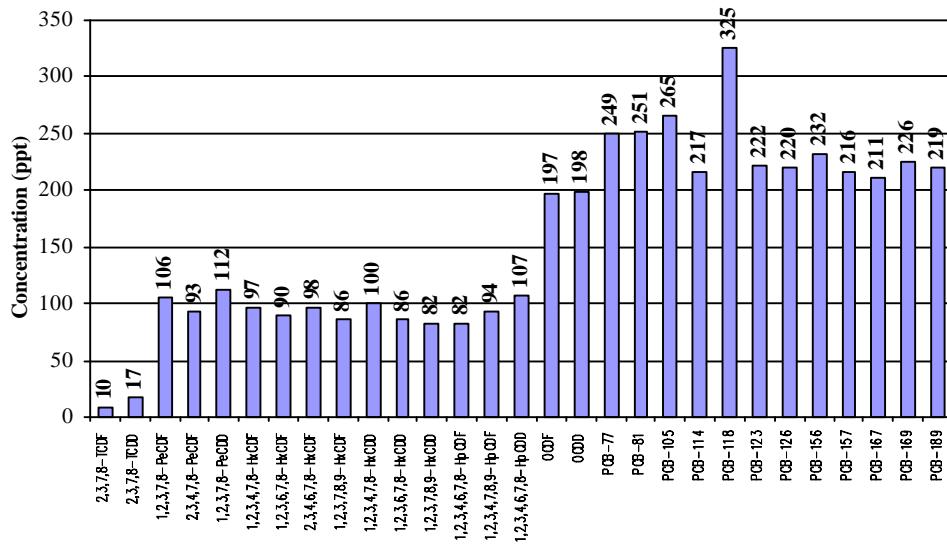


## Quantitative TEQs: Congener Profile

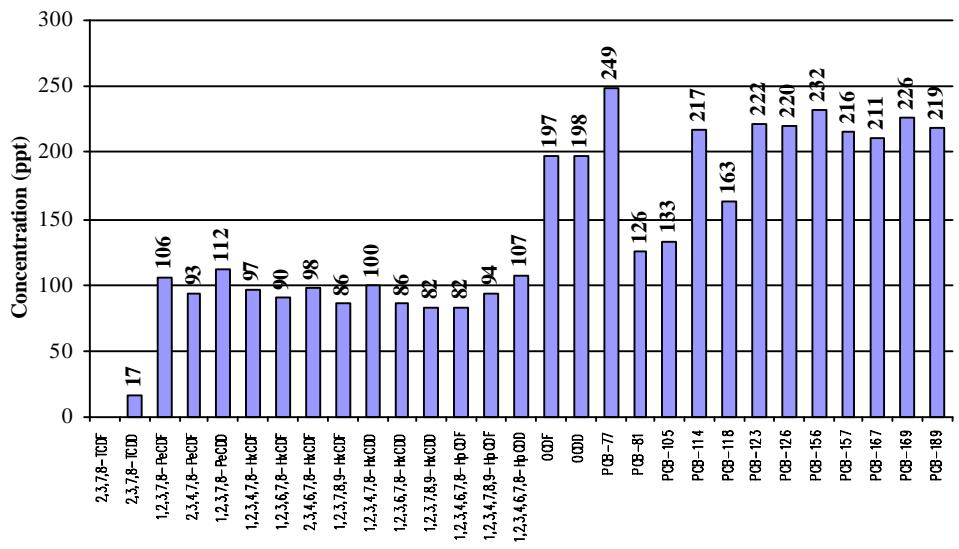


**Appendix B4. Congener Profiles for QC Samples****Sample GAAOLCS****Lab Spike****Full Concentrations: Congener Profile**

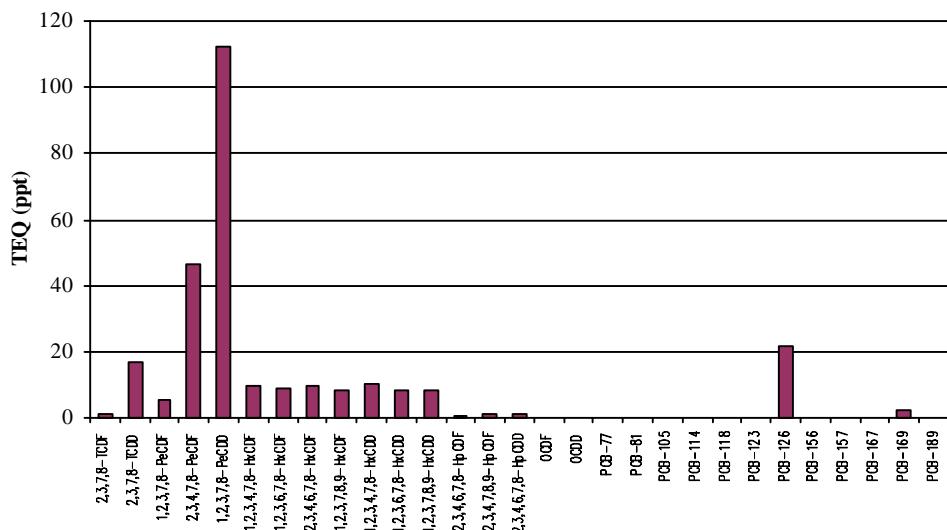
(Full Data Set With Proxies = 1/2 DL)

**Quantitative Concentrations: Congener Profile**

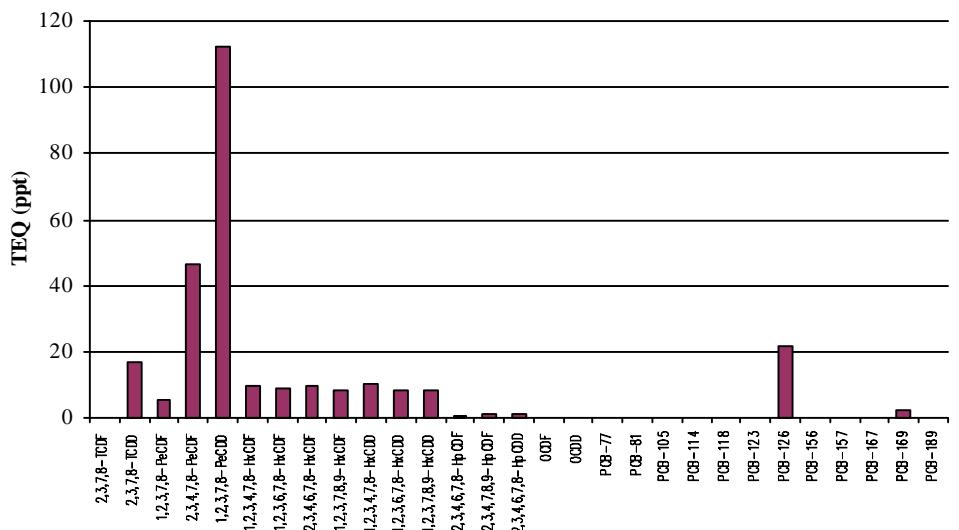
(Quantitative Data Set; Values Greater Than QL)

**Full TEQs: Congener Profile**

(Full Data Set With Proxies = 1/2 DL)

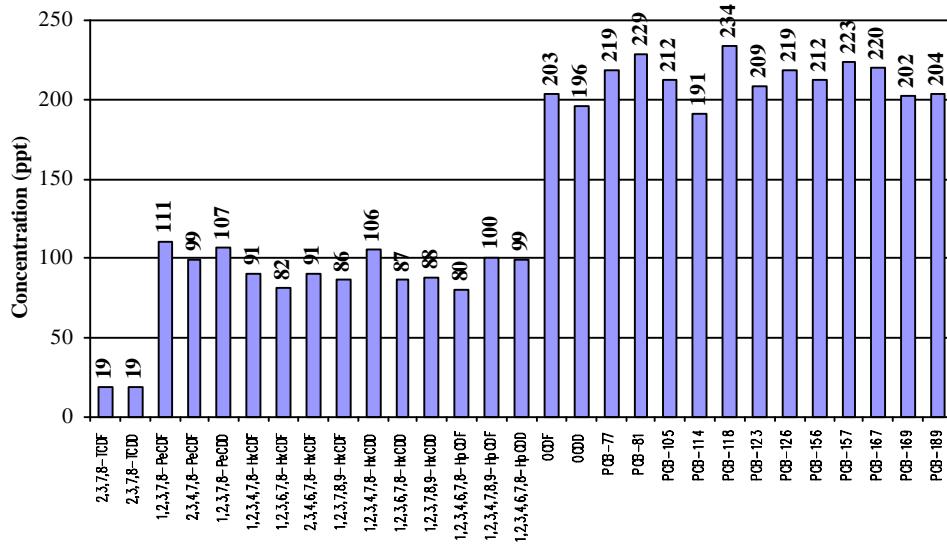
**Quantitative TEQs: Congener Profile**

(Quantitative Data Set; Values Greater Than QL)

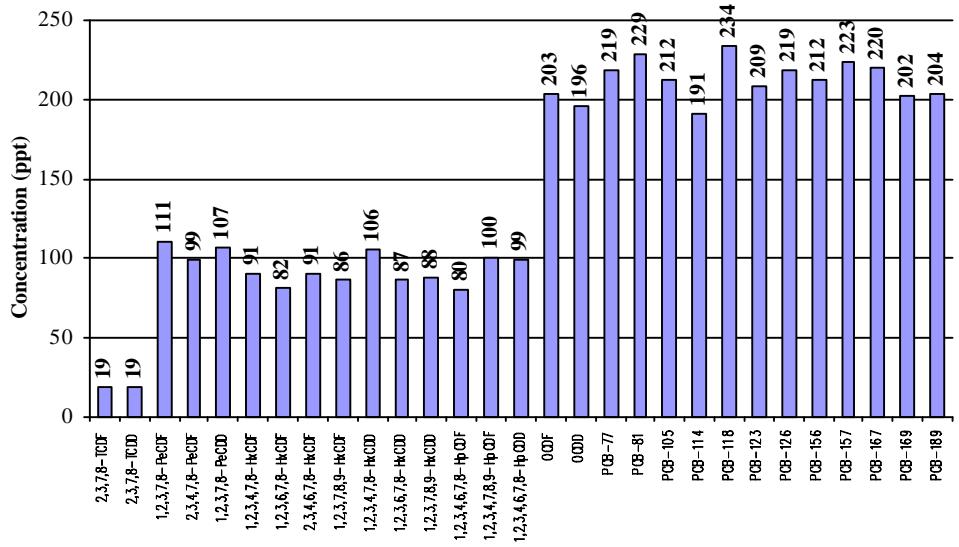


**Appendix B4. Congener Profiles for QC Samples****Sample GAAWLCS****Lab Spike****Full Concentrations: Congener Profile**

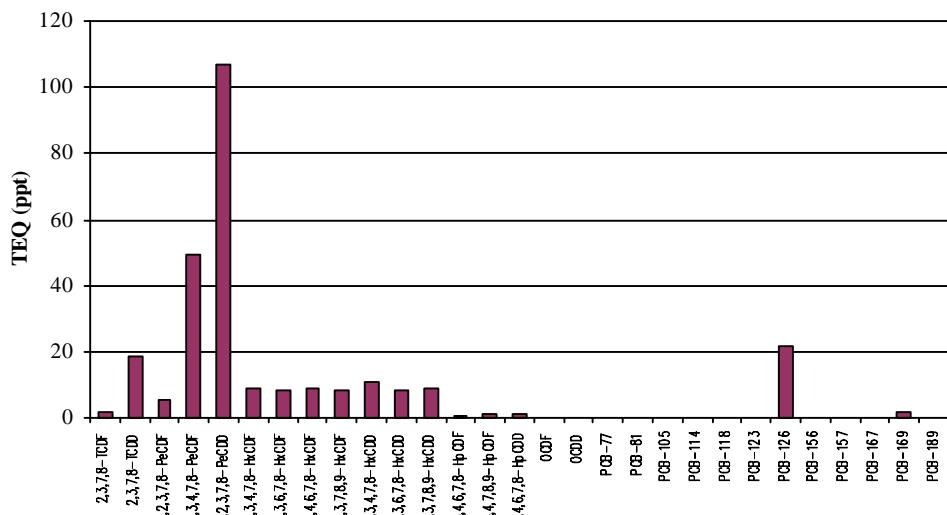
(Full Data Set With Proxies = 1/2 DL)

**Quantitative Concentrations: Congener Profile**

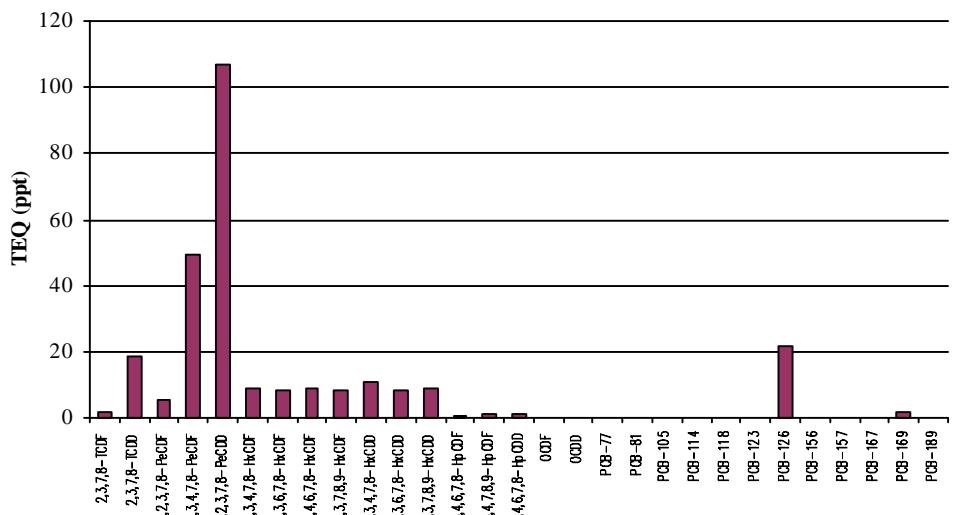
(Quantitative Data Set; Values Greater Than QL)

**Full TEQs: Congener Profile**

(Full Data Set With Proxies = 1/2 DL)

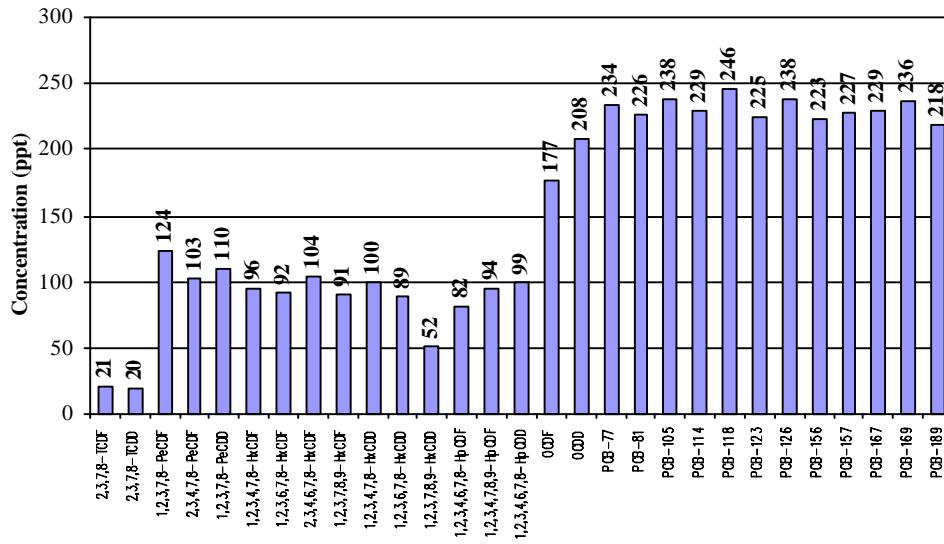
**Quantitative TEQs: Congener Profile**

(Quantitative Data Set; Values Greater Than QL)

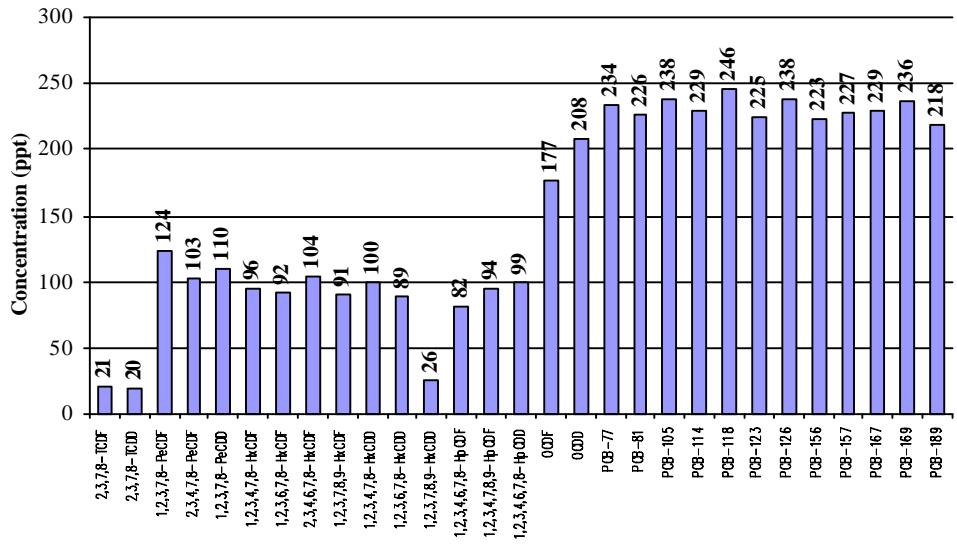


**Appendix B4. Congener Profiles for QC Samples****Sample GBAELCS****Lab Spike****Full Concentrations: Congener Profile**

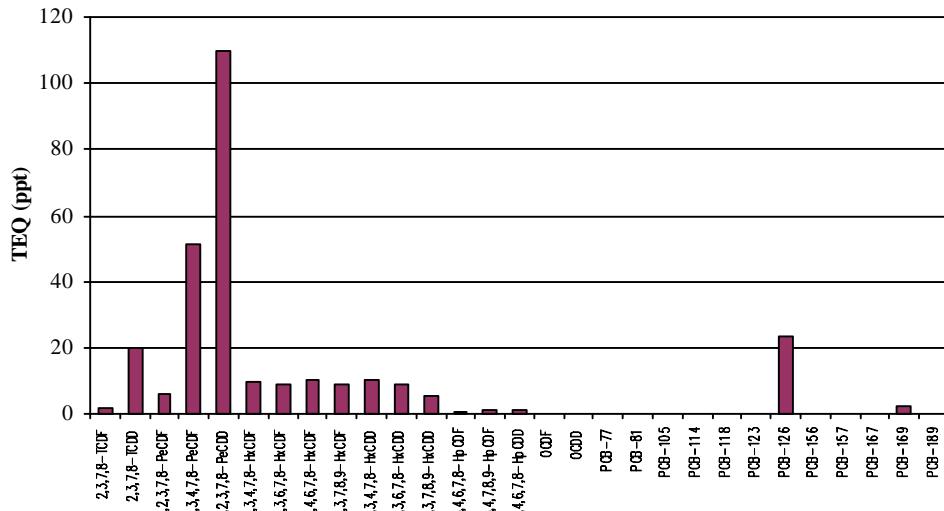
(Full Data Set With Proxies = 1/2 DL)

**Quantitative Concentrations: Congener Profile**

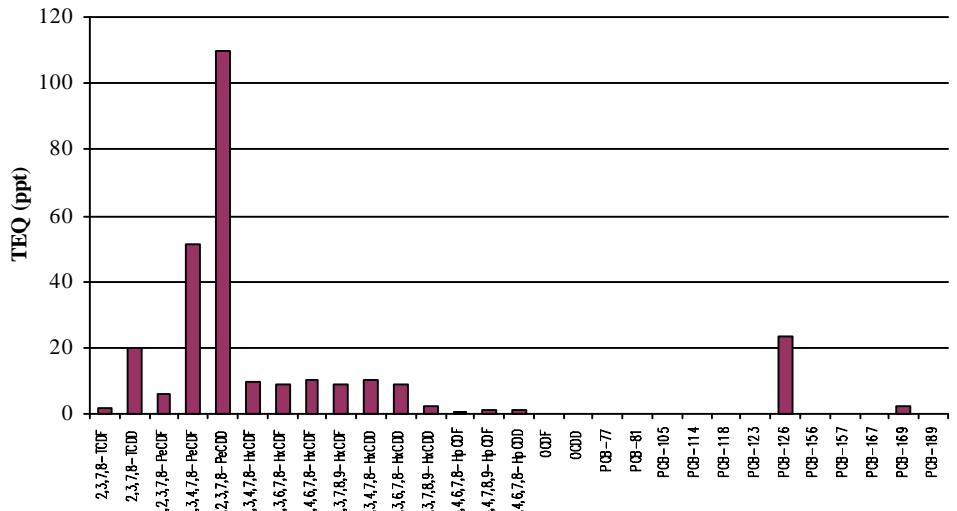
(Quantitative Data Set; Values Greater Than QL)

**Full TEQs: Congener Profile**

(Full Data Set With Proxies = 1/2 DL)

**Quantitative TEQs: Congener Profile**

(Quantitative Data Set; Values Greater Than QL)

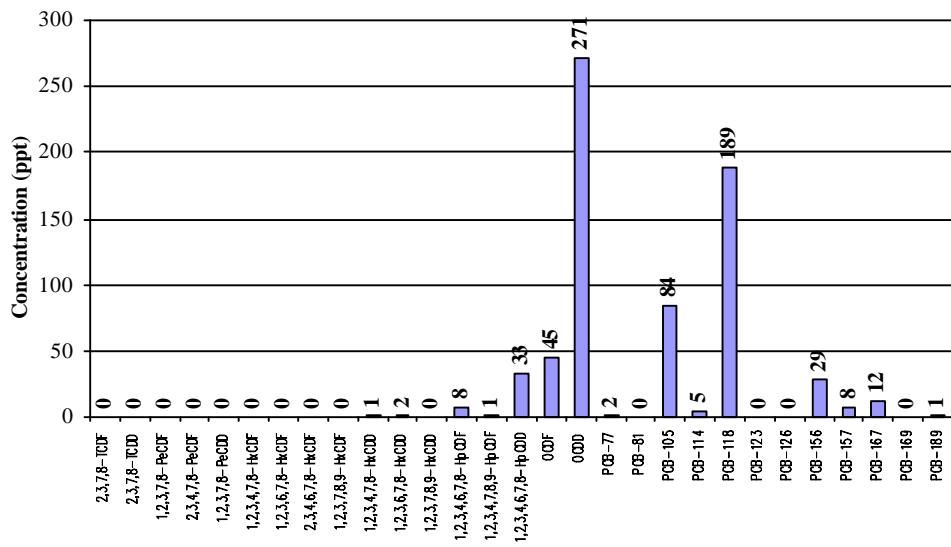


## Appendix B4. Congener Profiles for QC Samples

Sample 113 Ref-F-22 PE Clean

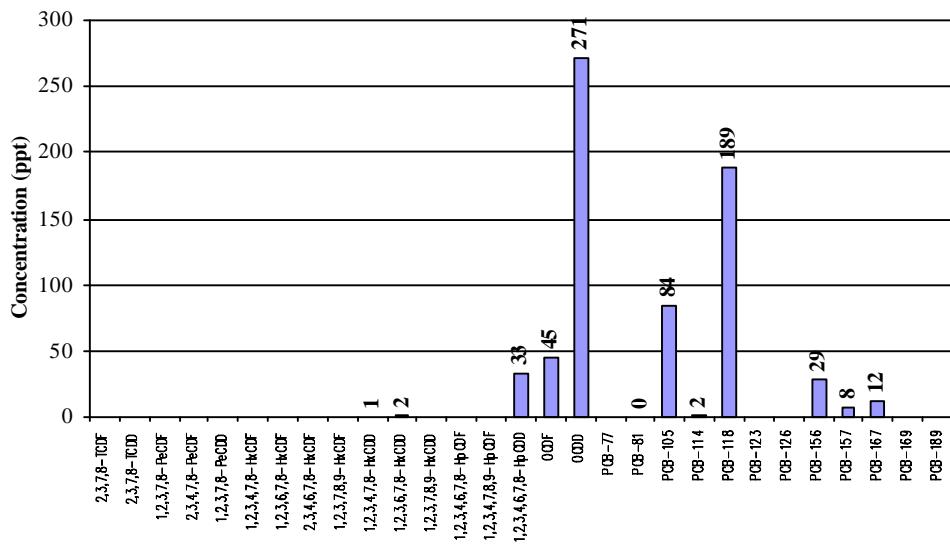
## Full Concentrations: Congener Profile

(Full Data Set With Proxies = 1/2 DL)



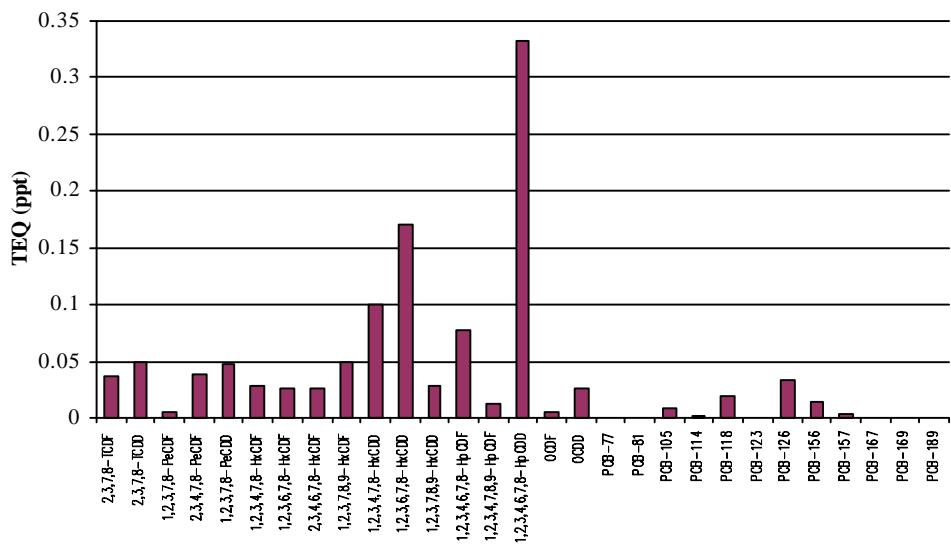
## Quantitative Concentrations: Congener Profile

(Quantitative Data Set; Values Greater Than QL)



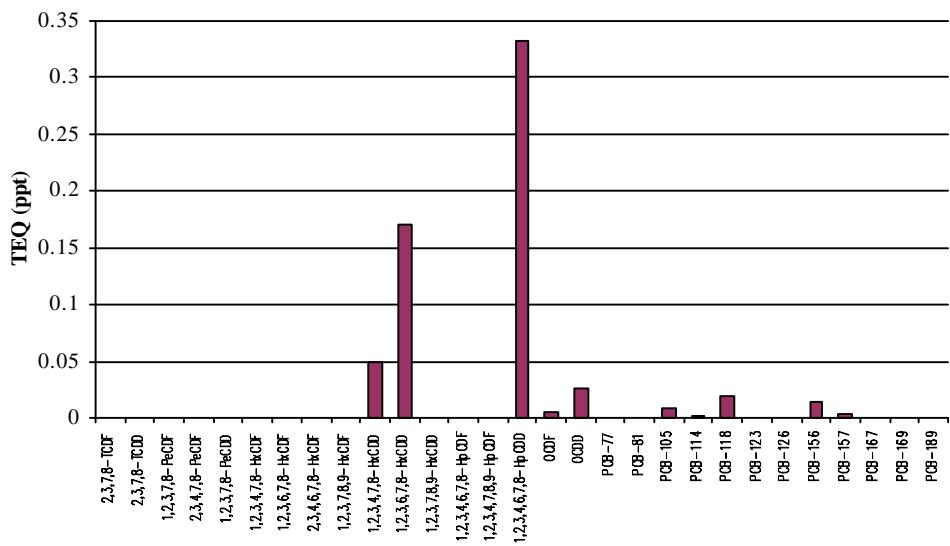
## Full TEQs: Congener Profile

(Full Data Set With Proxies = 1/2 DL)

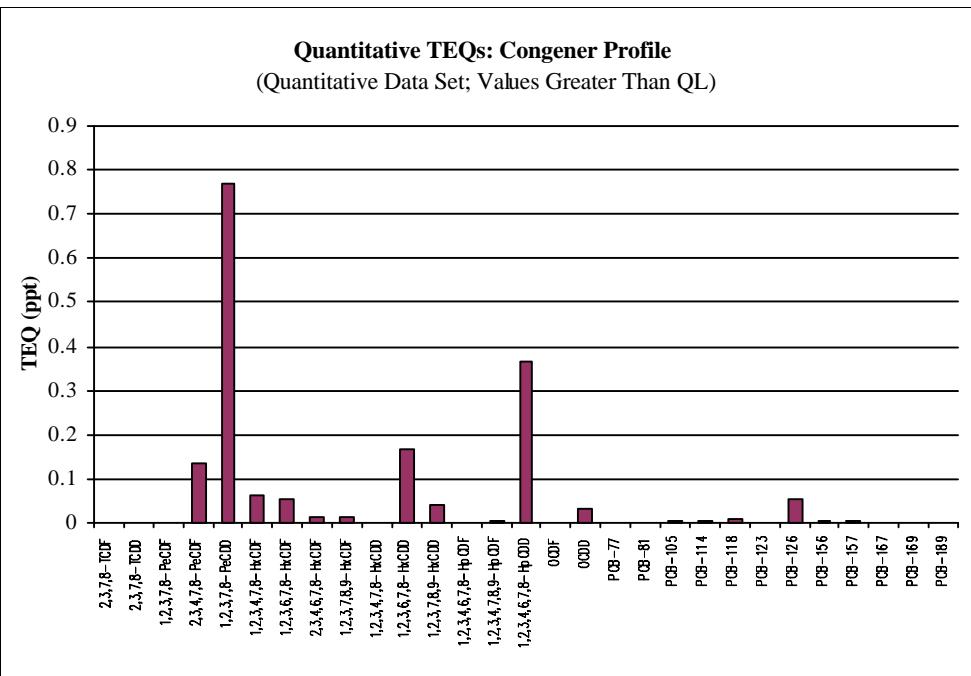
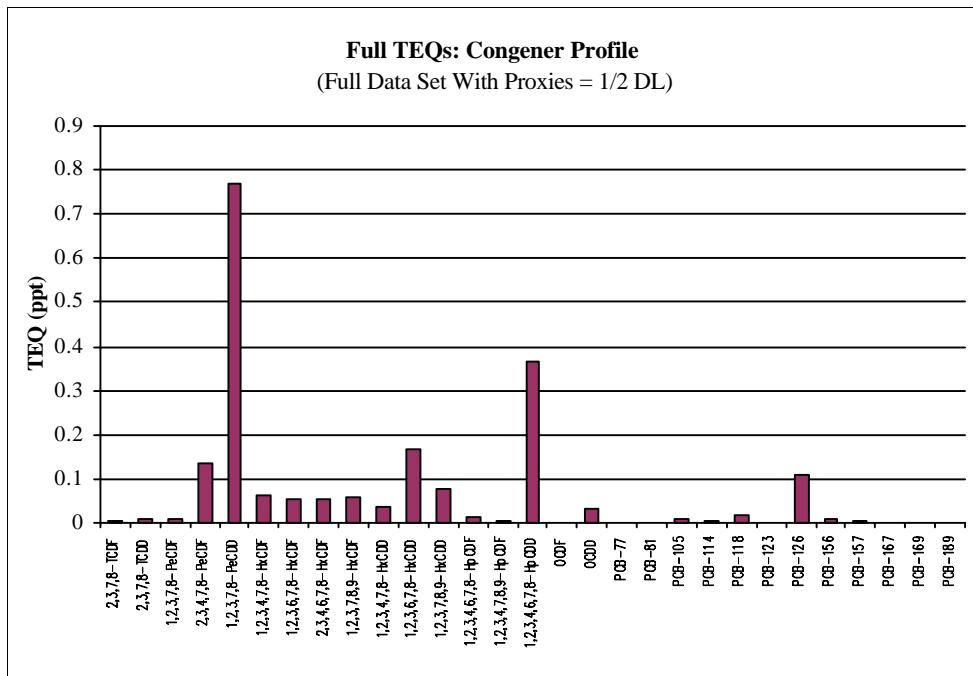
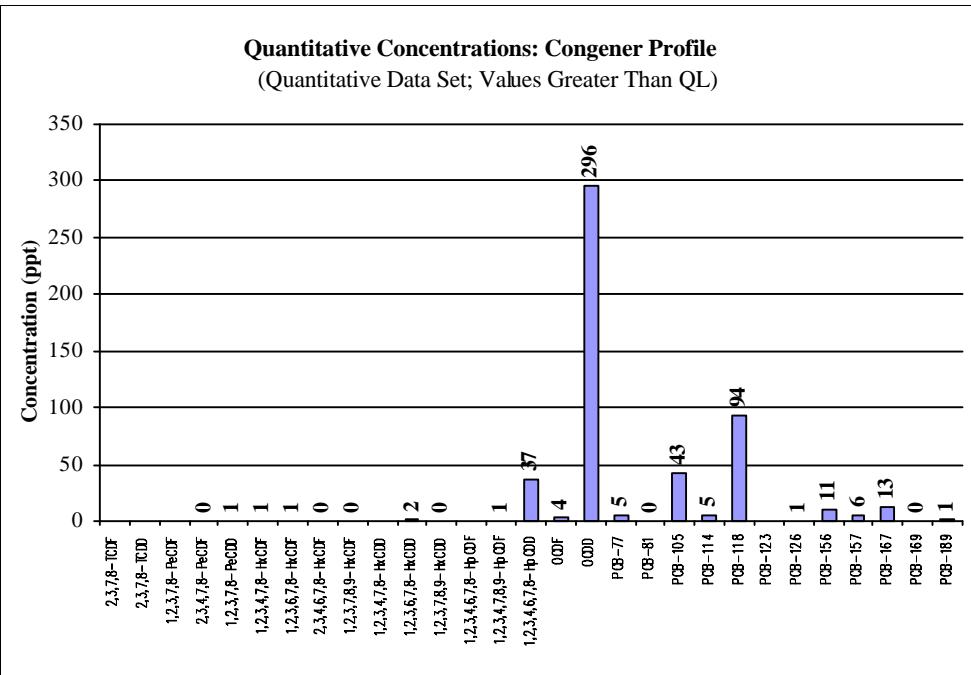
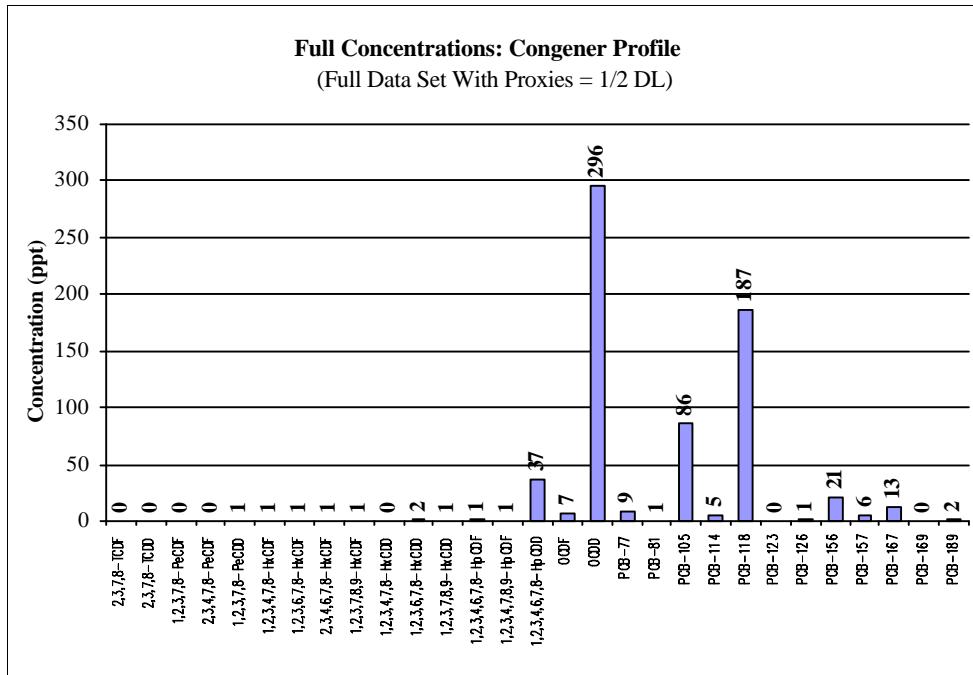


## Quantitative TEQs: Congener Profile

(Quantitative Data Set; Values Greater Than QL)

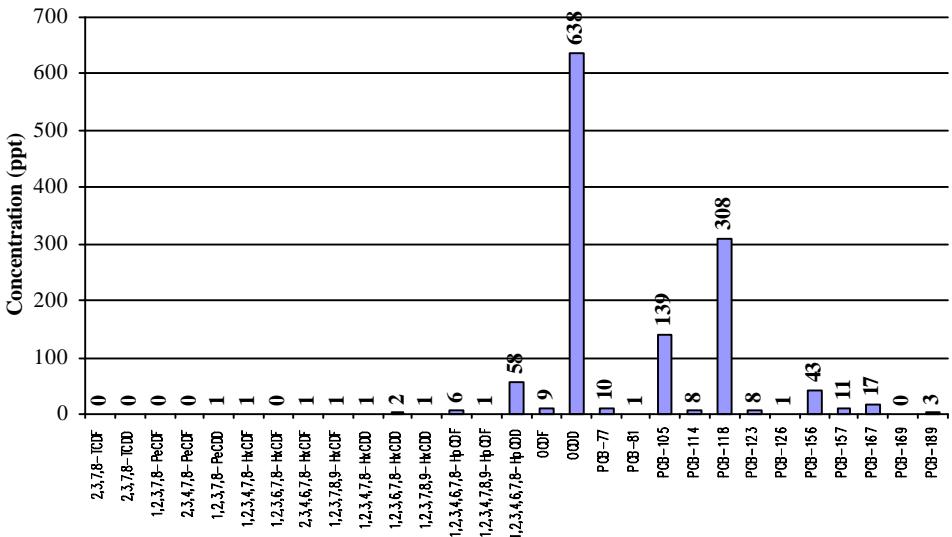


*Sample*      339      *Ref-F-27 PE Clean*

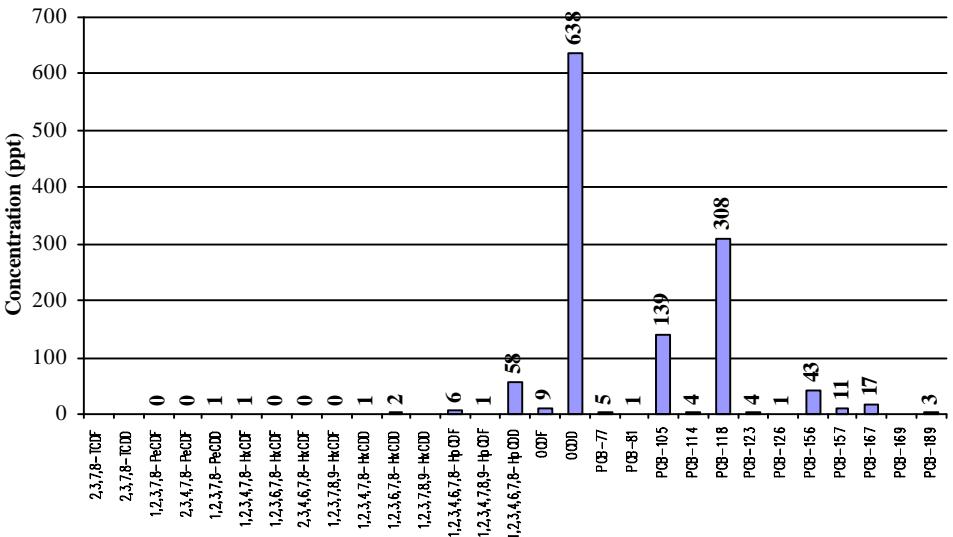


**Appendix B4. Congener Profiles for QC Samples****Sample      681      blank      PE Clean****Full Concentrations: Congener Profile**

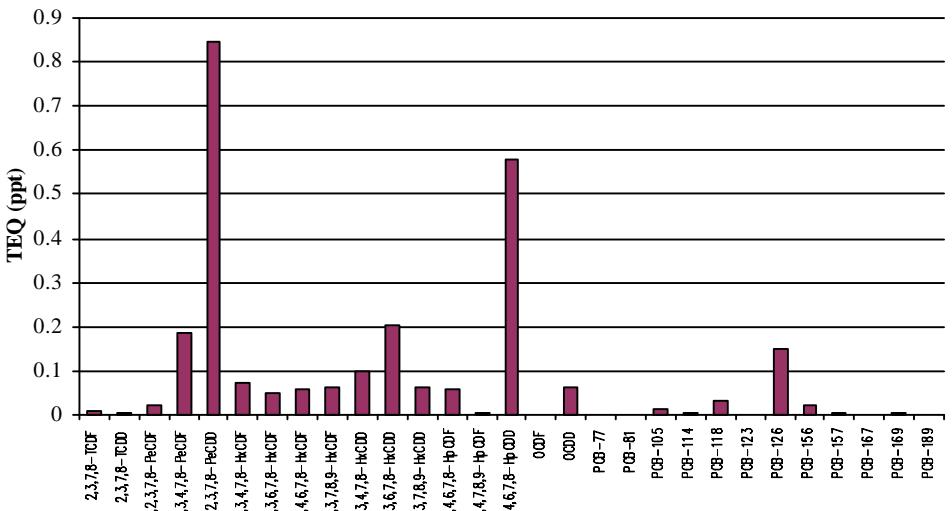
(Full Data Set With Proxies = 1/2 DL)

**Quantitative Concentrations: Congener Profile**

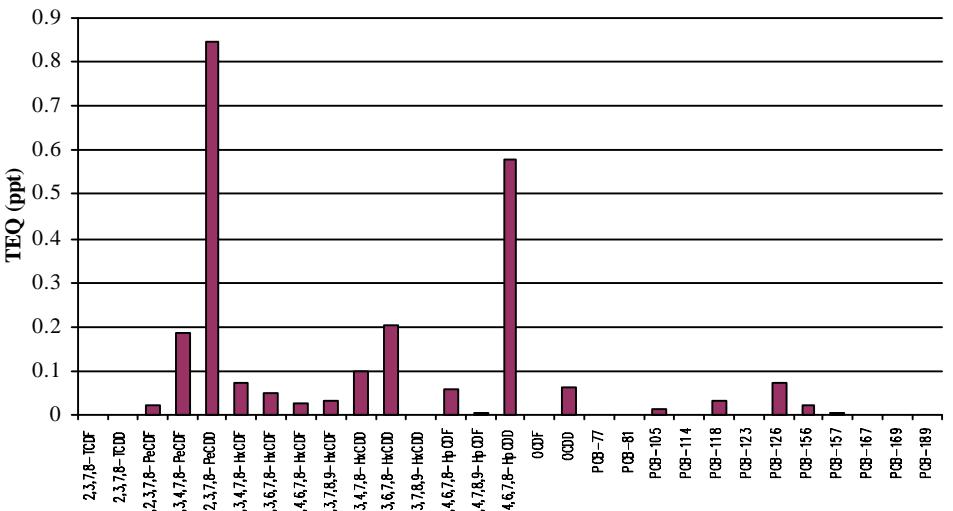
(Quantitative Data Set; Values Greater Than QL)

**Full TEQs: Congener Profile**

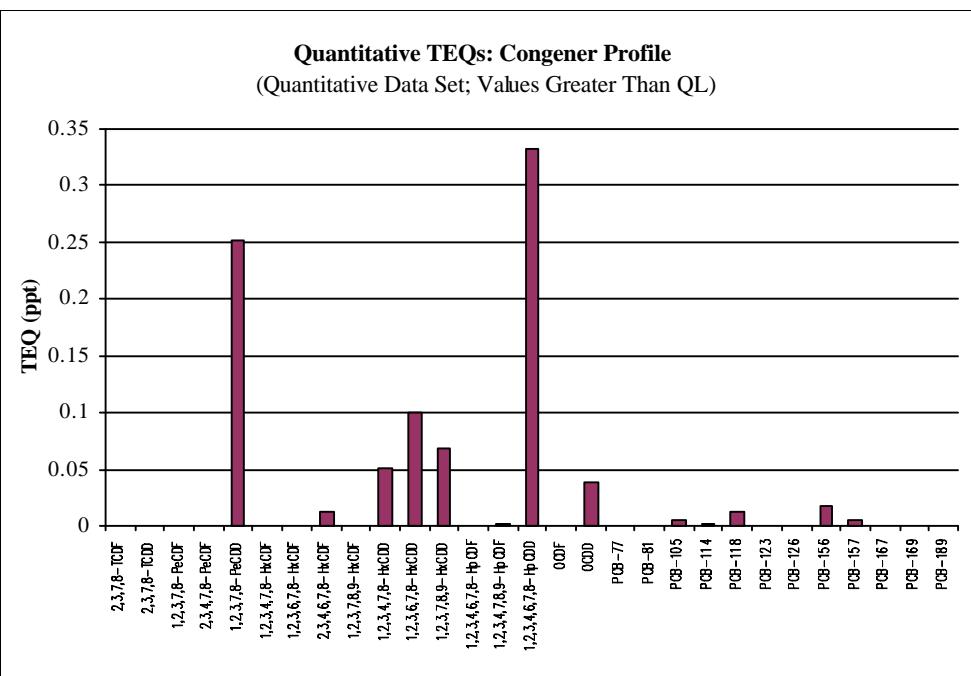
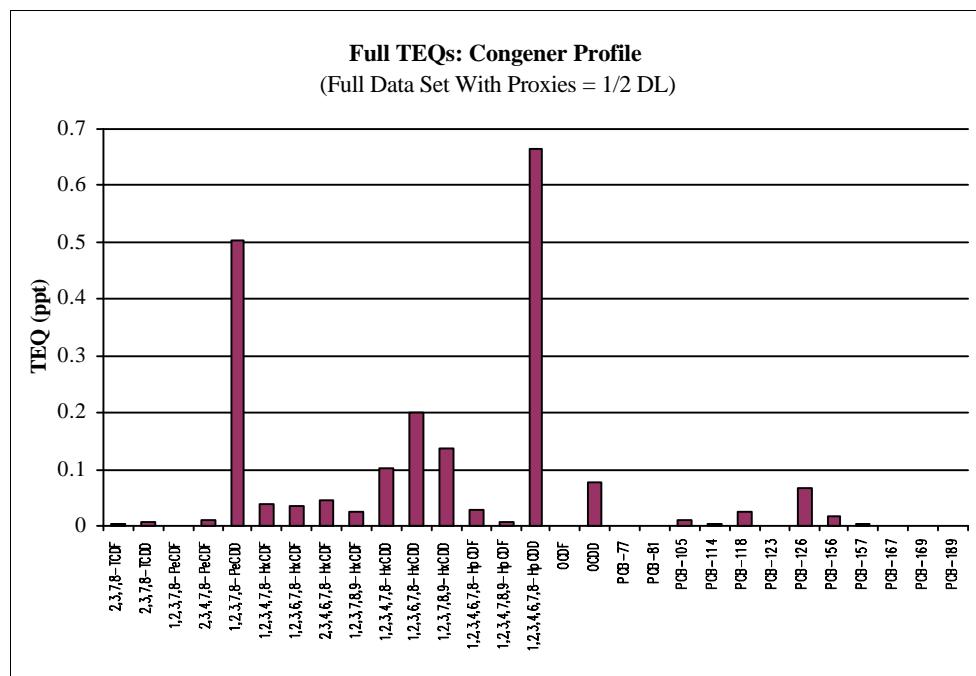
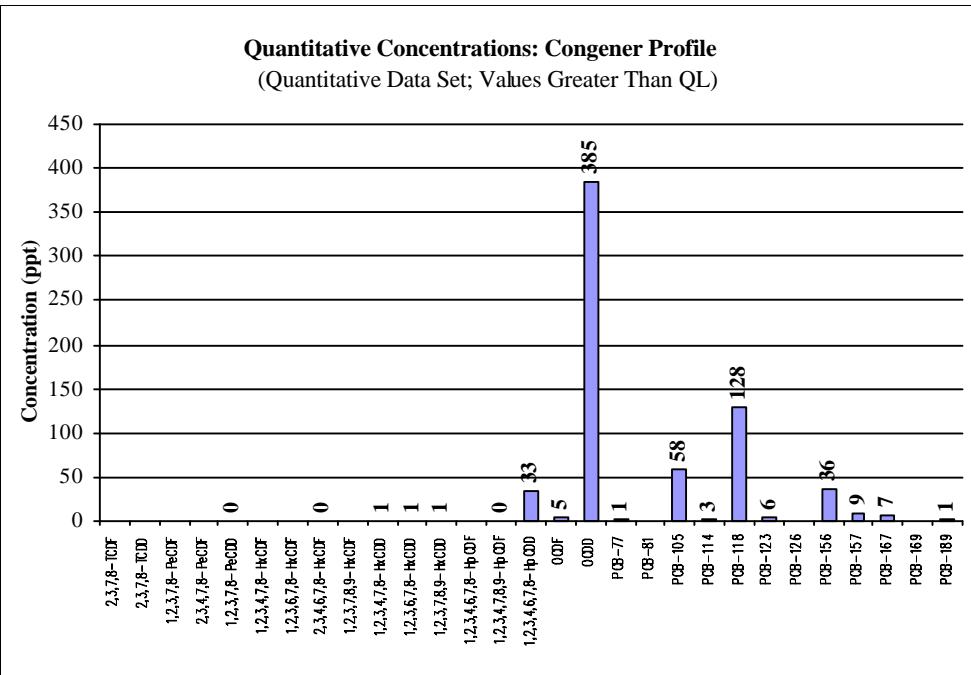
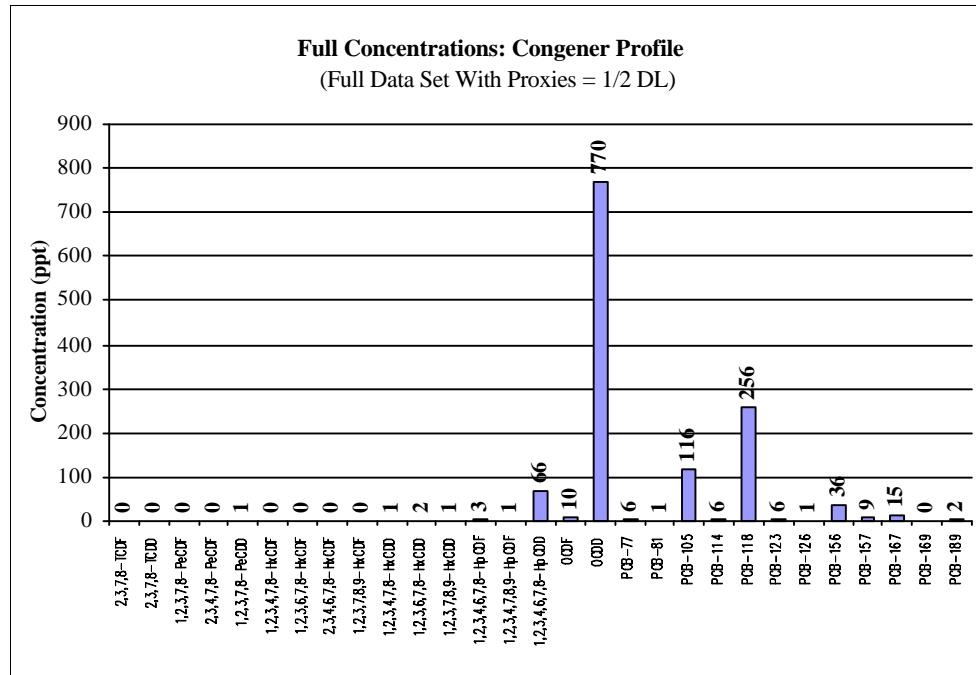
(Full Data Set With Proxies = 1/2 DL)

**Quantitative TEQs: Congener Profile**

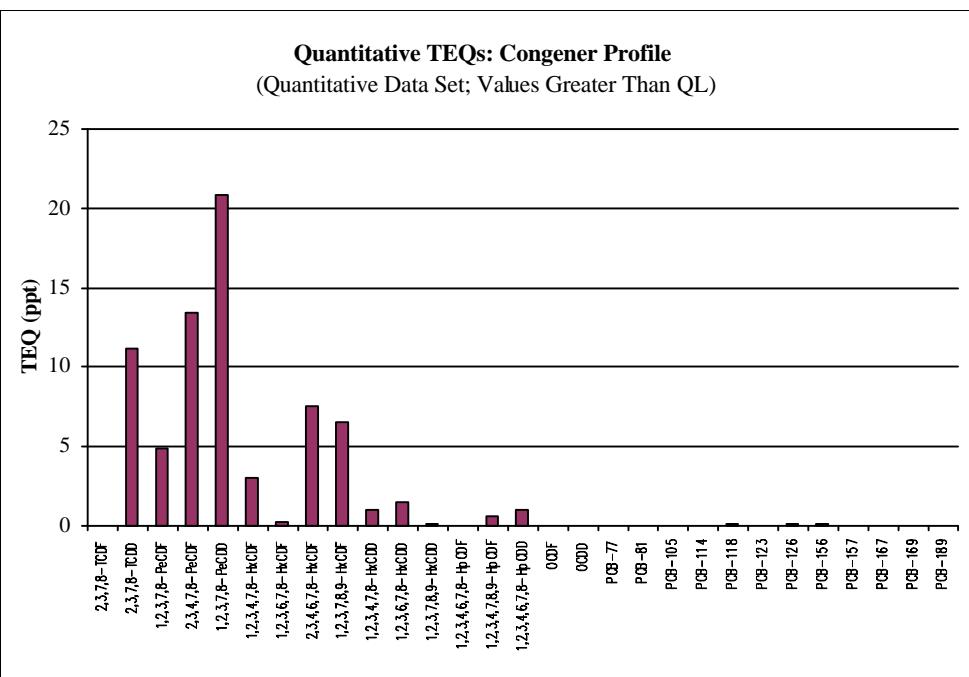
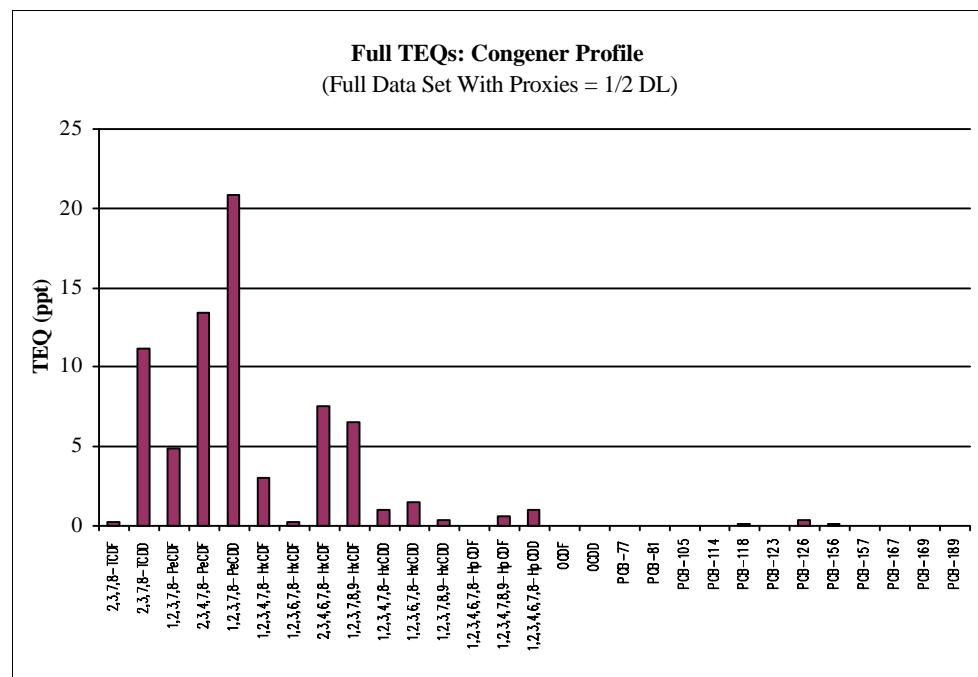
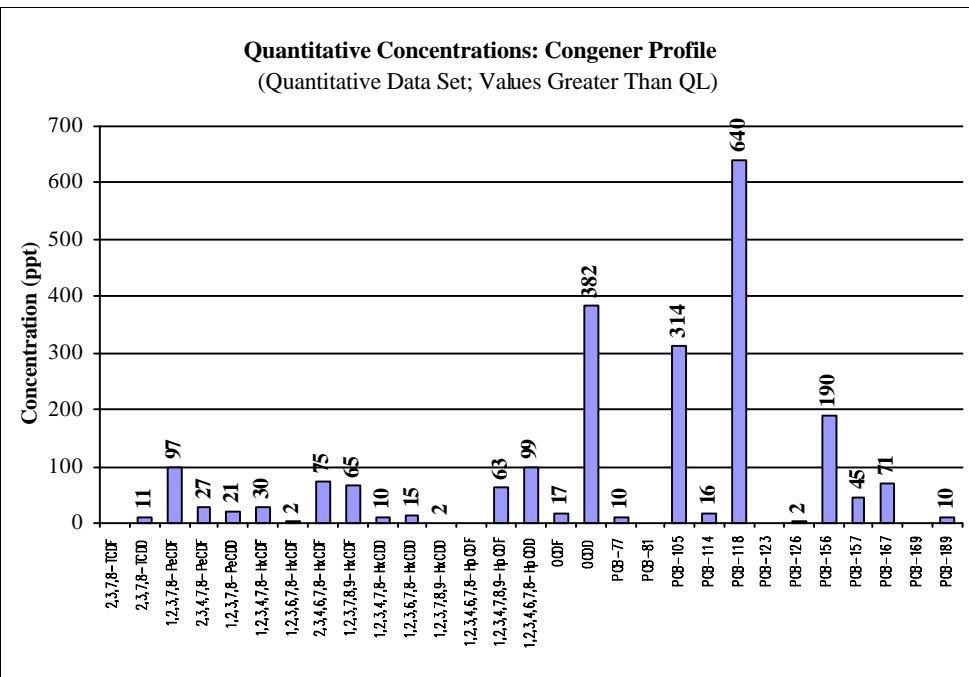
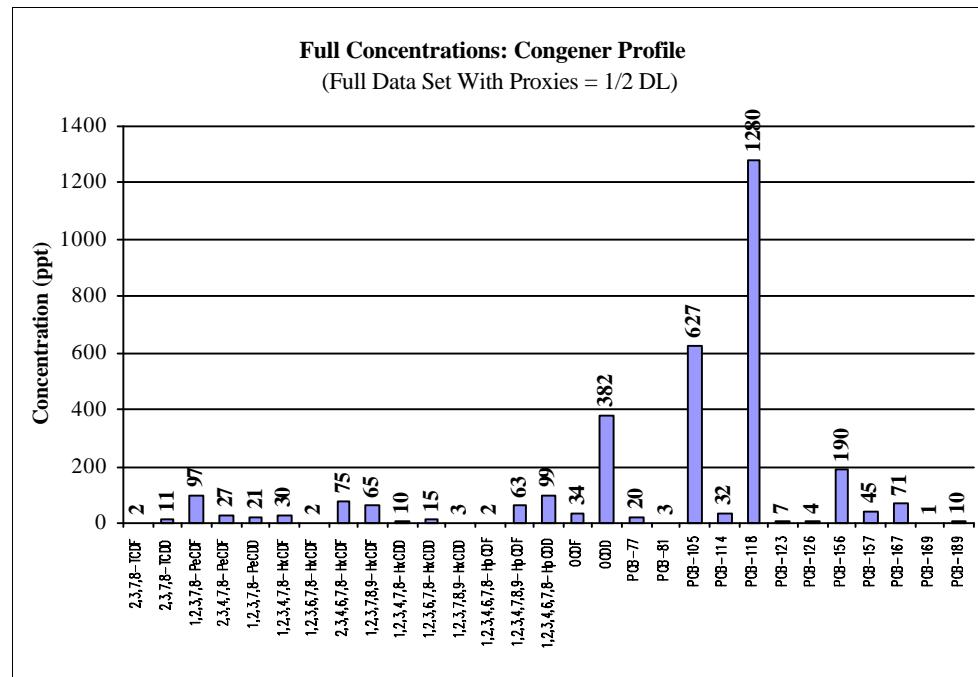
(Quantitative Data Set; Values Greater Than QL)



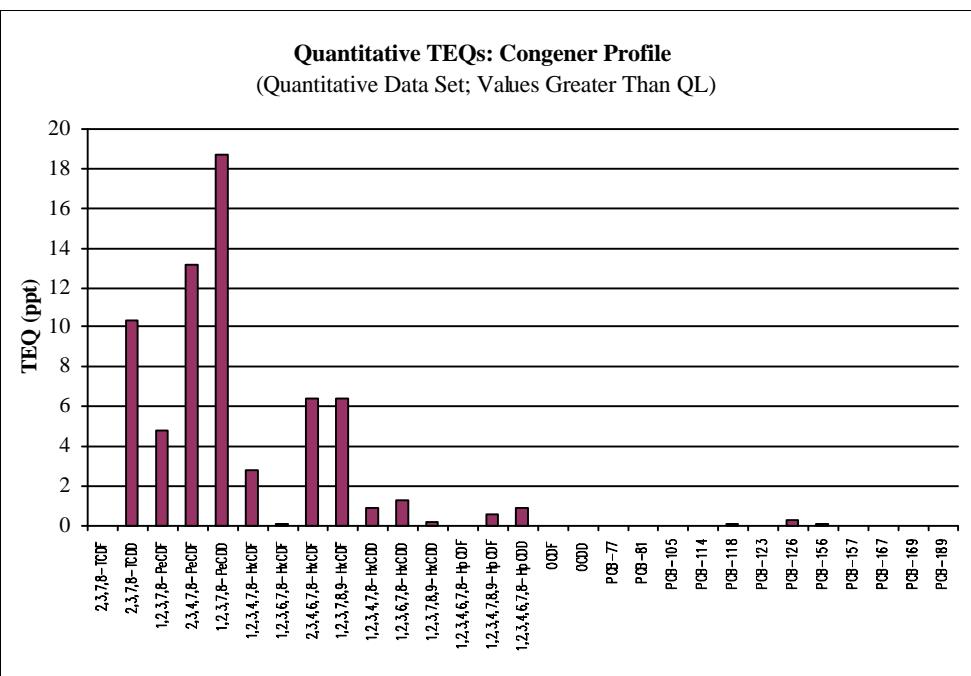
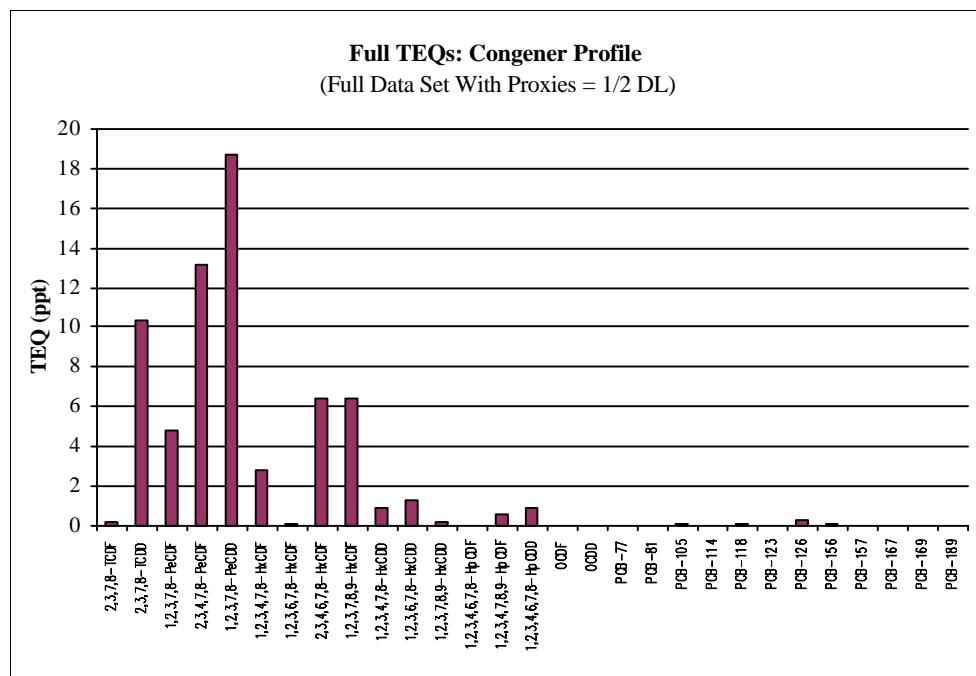
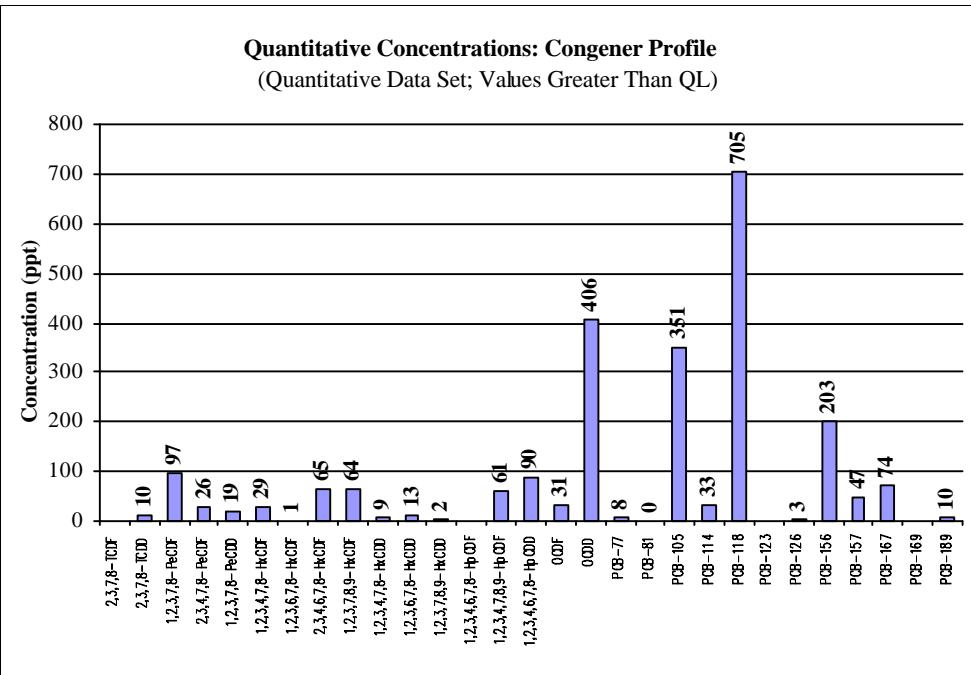
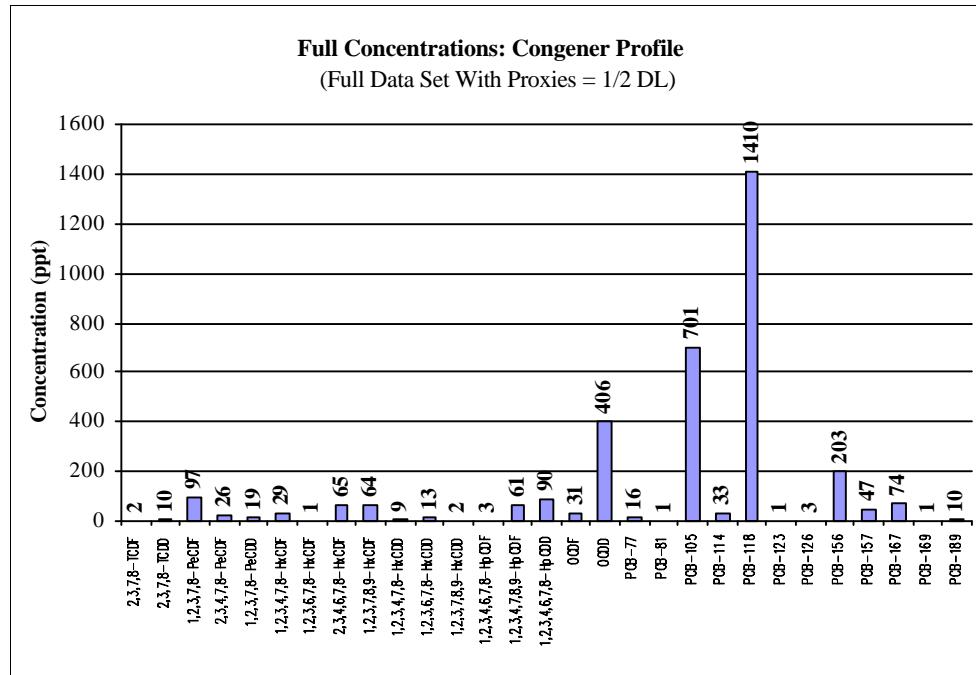
*Sample* 779 *Ref-F-16 PE Clean*



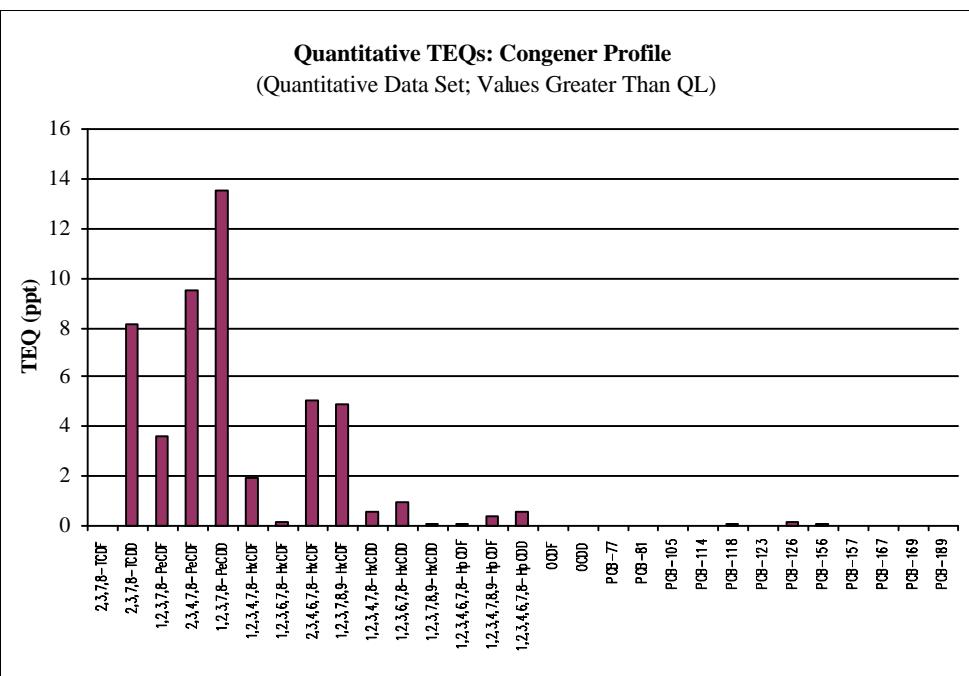
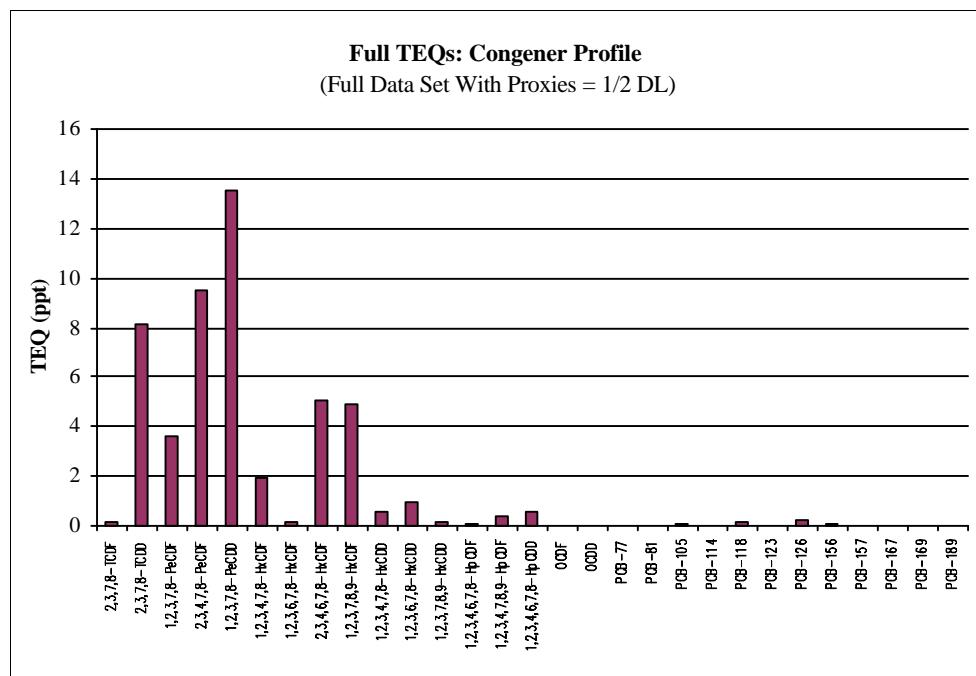
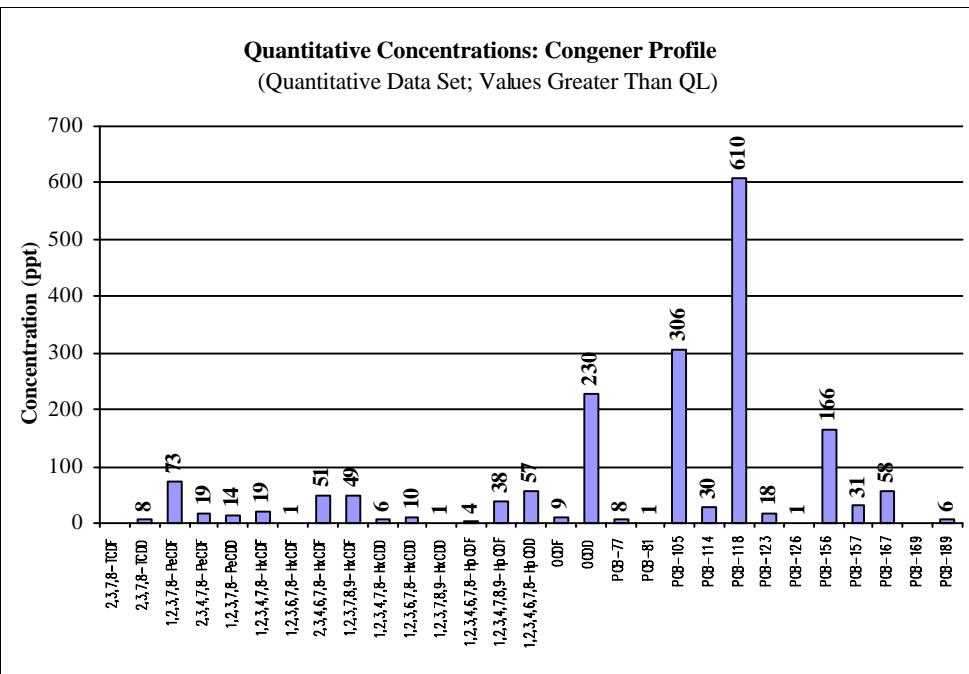
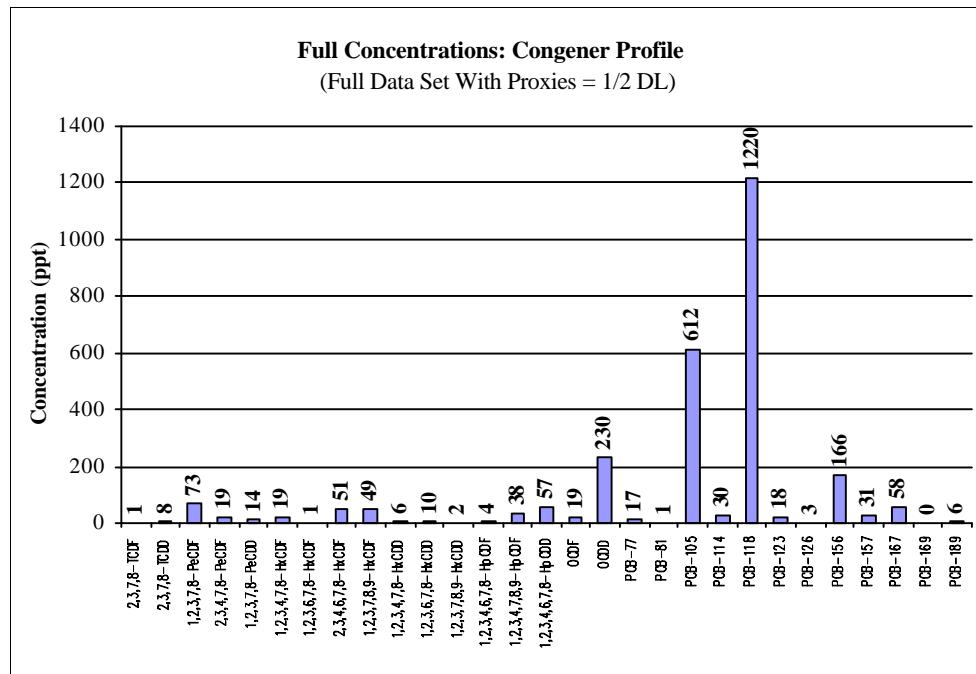
*Sample*      **206**      **PEL-F-4**    **PE Low Std**



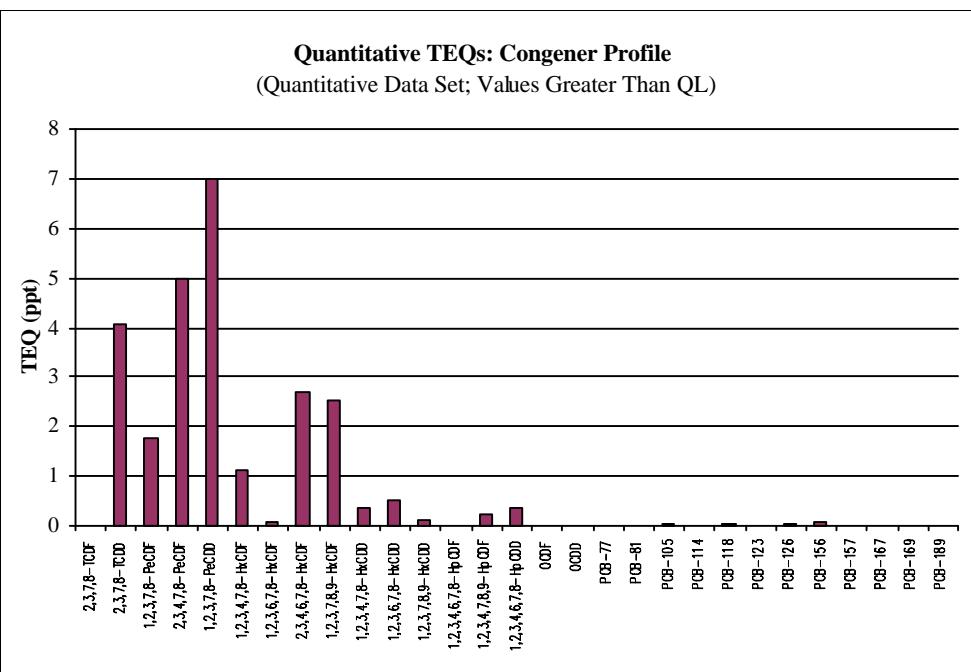
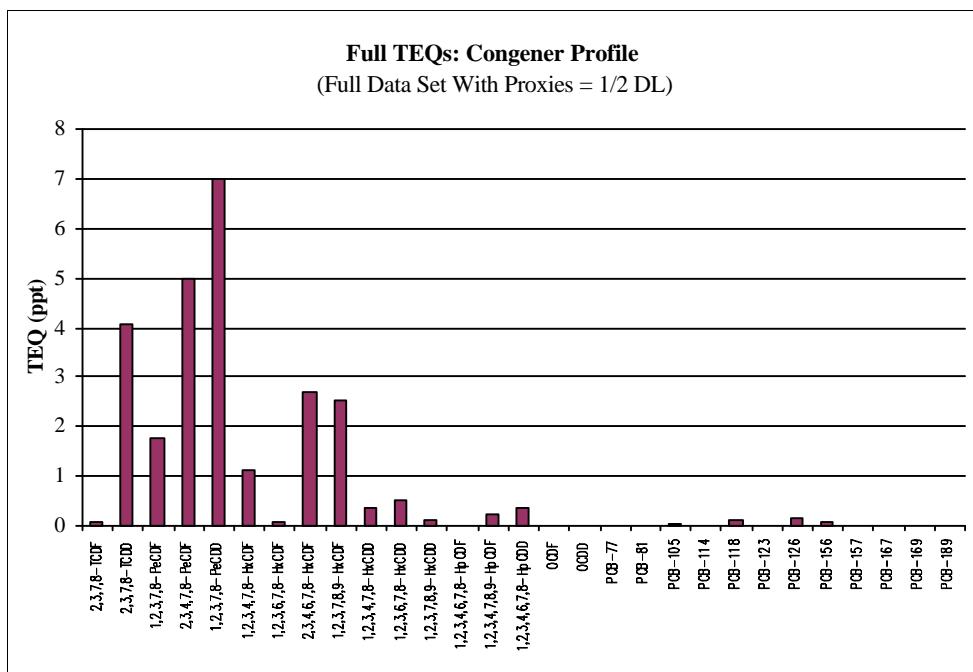
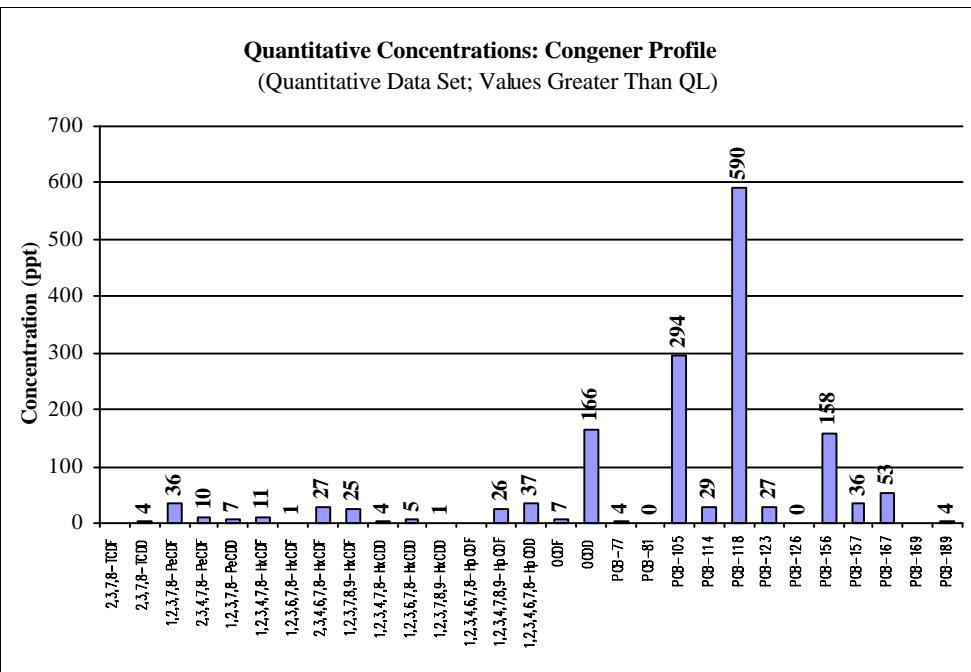
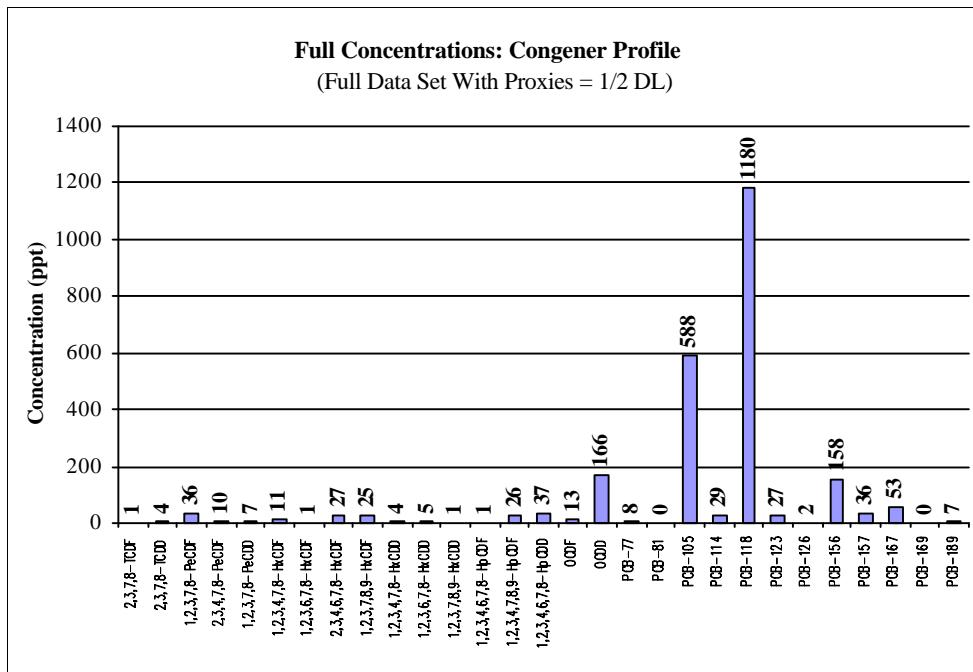
*Sample* 943 PEL-F-10 PE Low Std



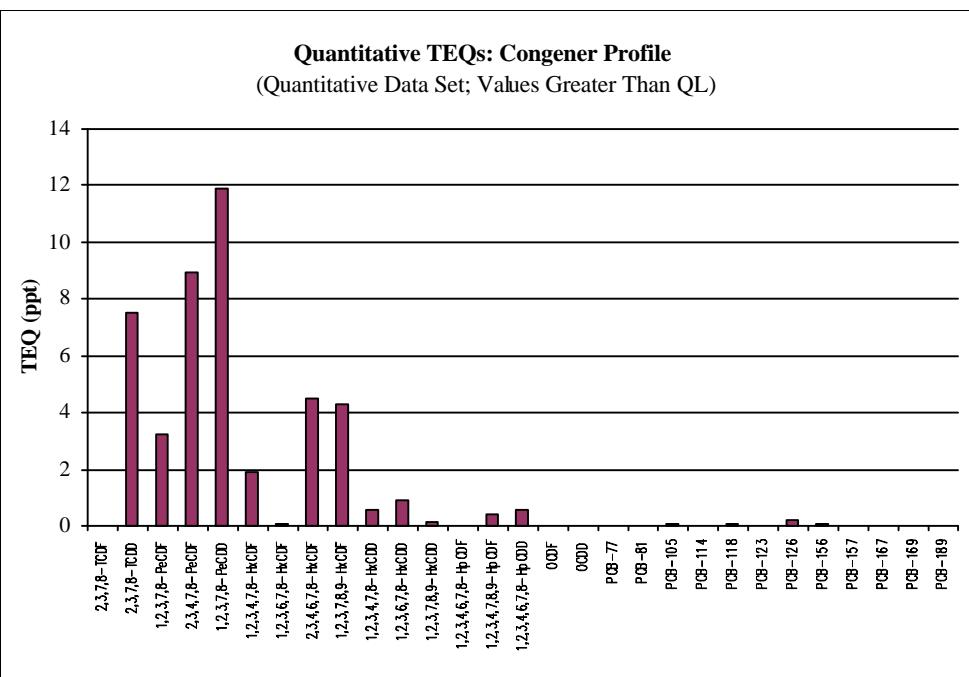
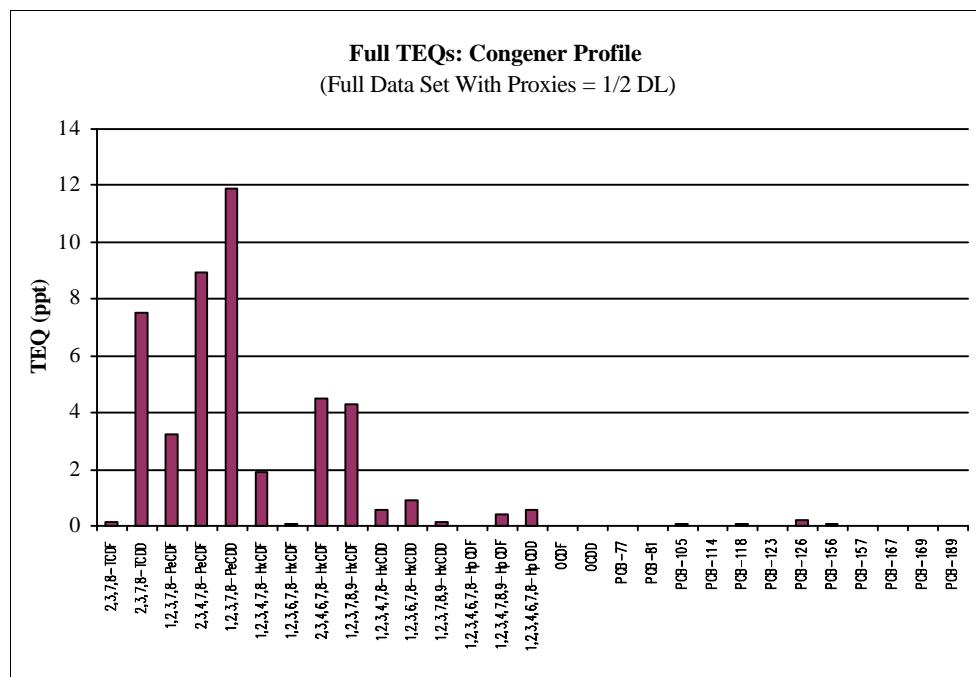
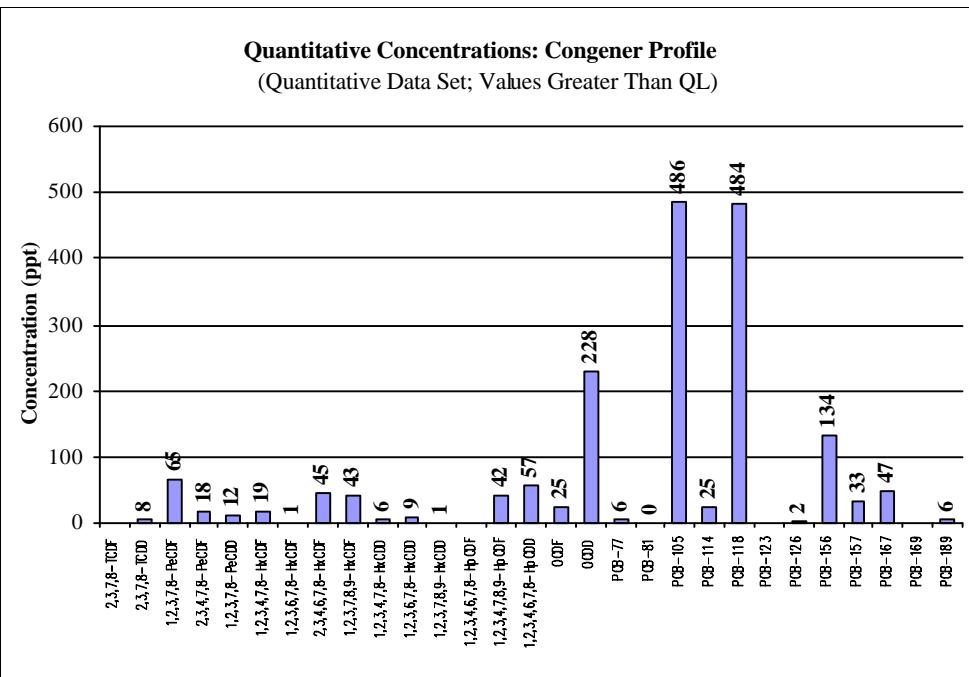
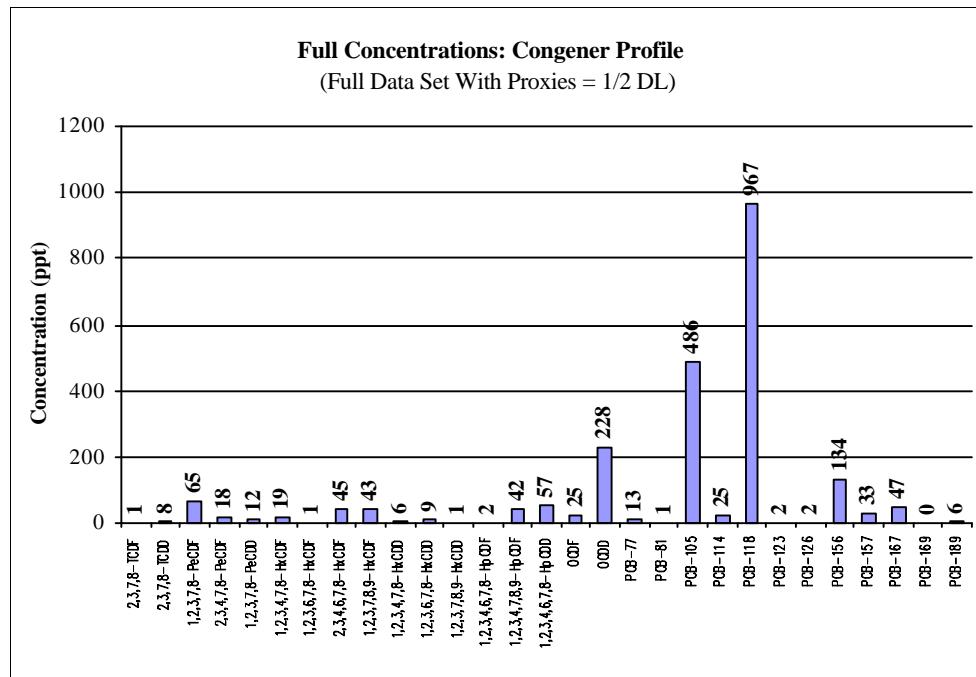
*Sample*    *PC00268*    *PEL*    *PE Low Std*



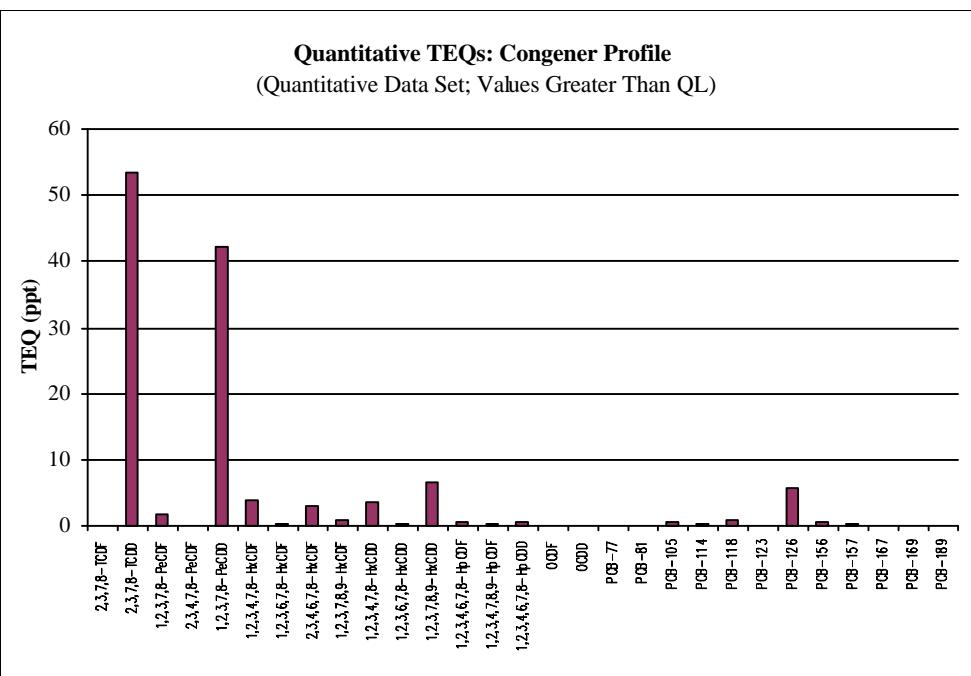
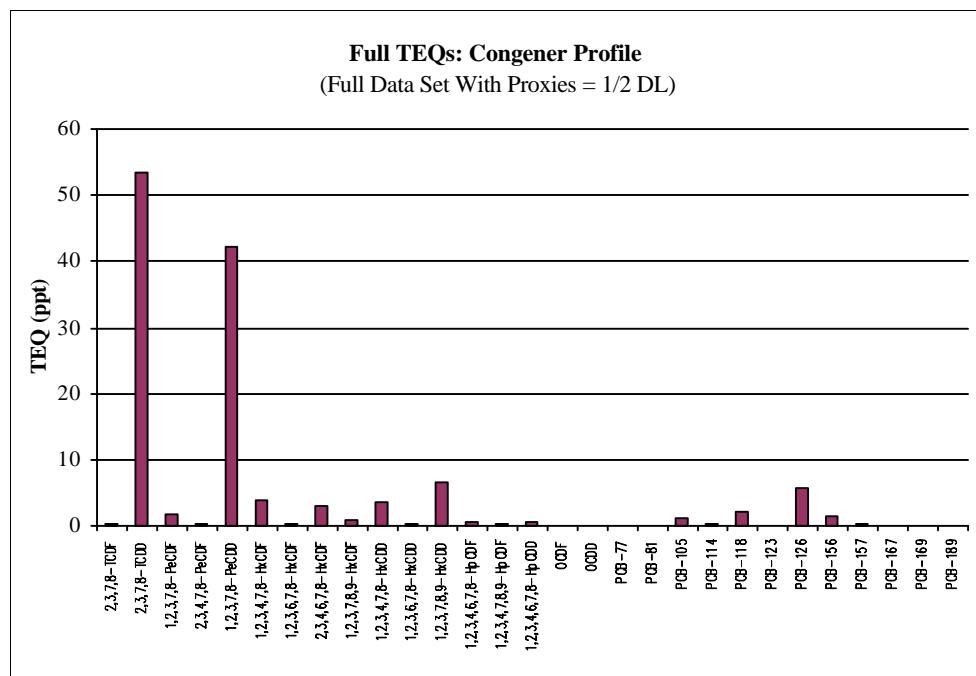
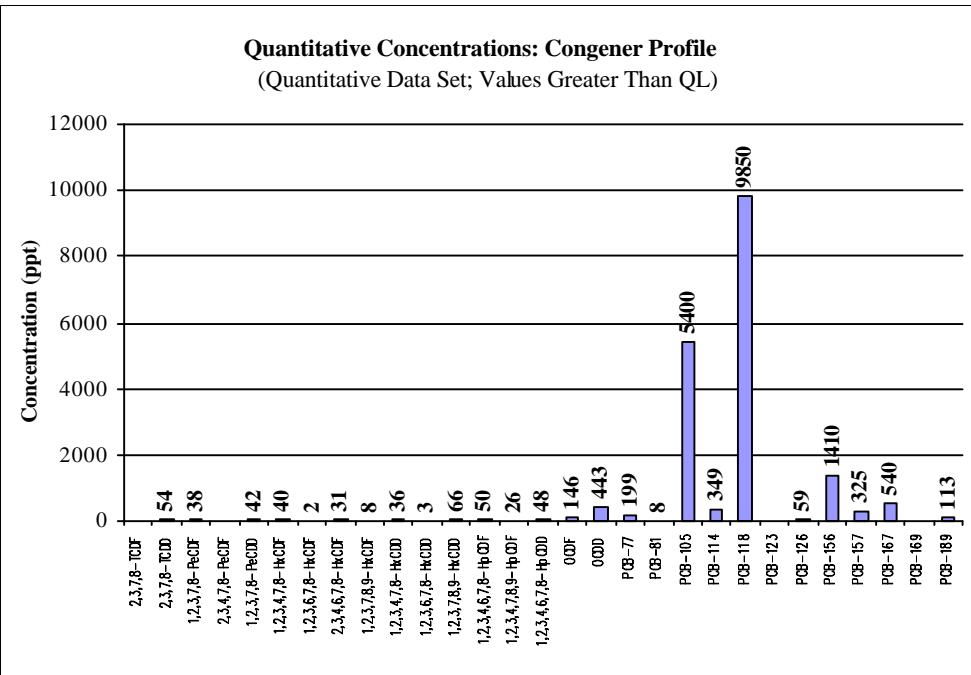
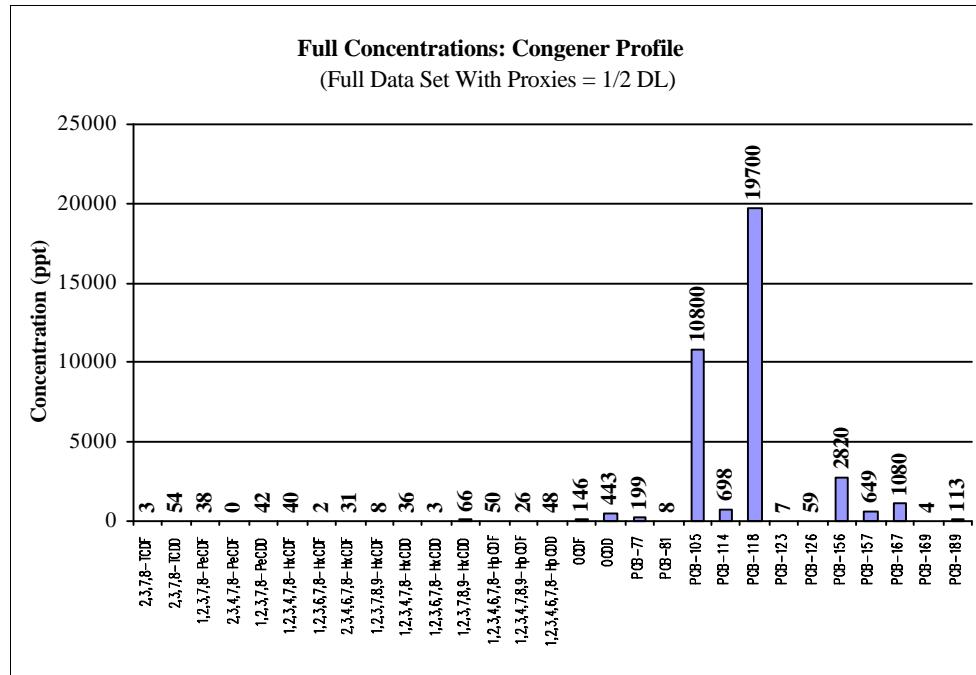
*Sample*    *PC00353*    *PEL*    *PE Low Std*



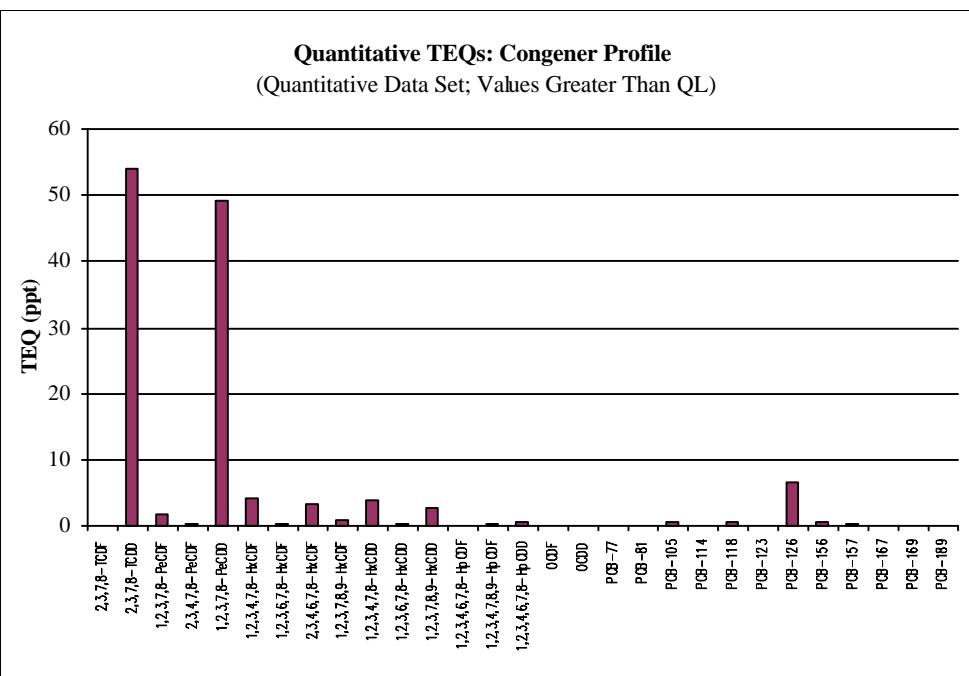
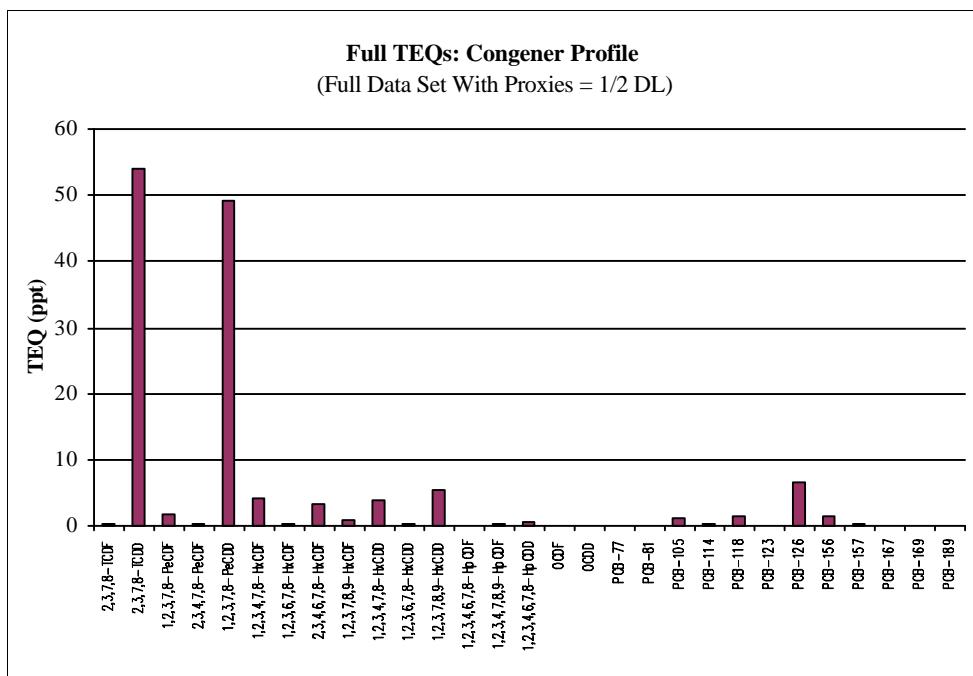
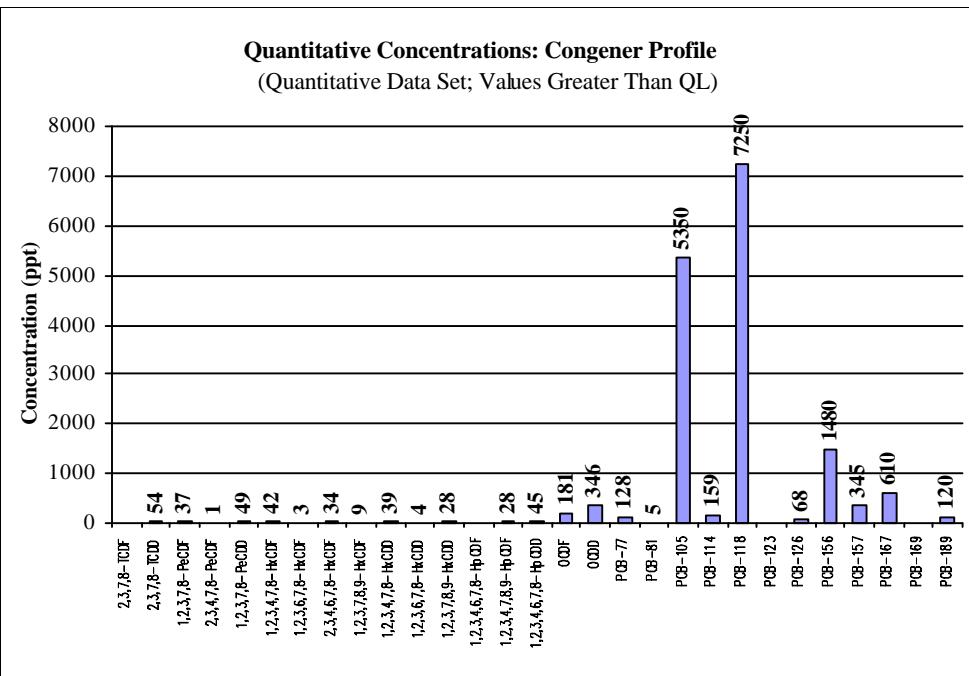
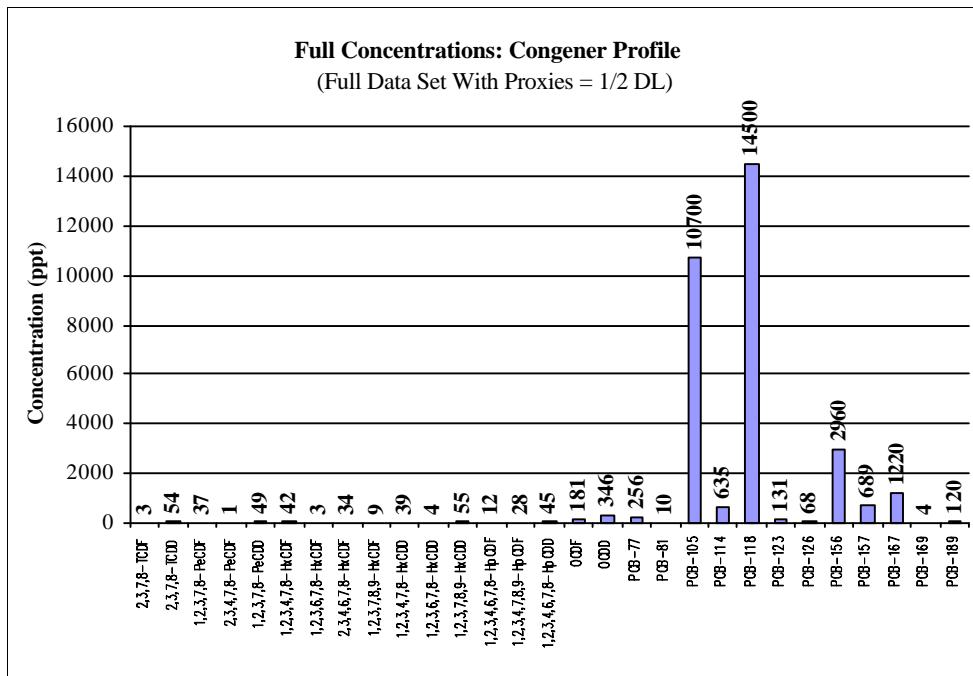
*Sample*    **PC00359**    **PEL**    **PE Low Std**



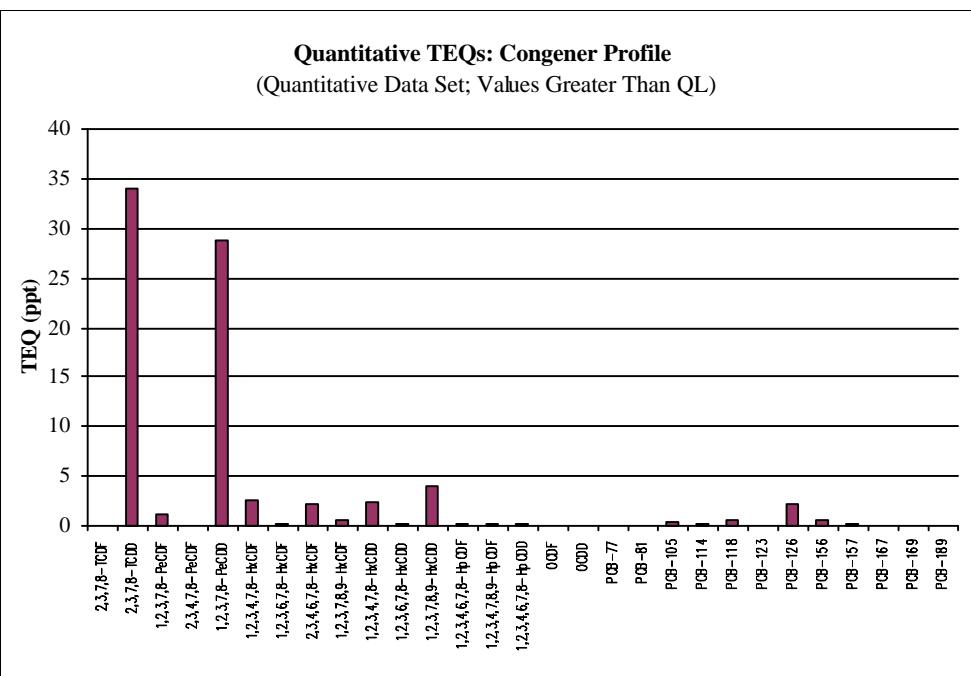
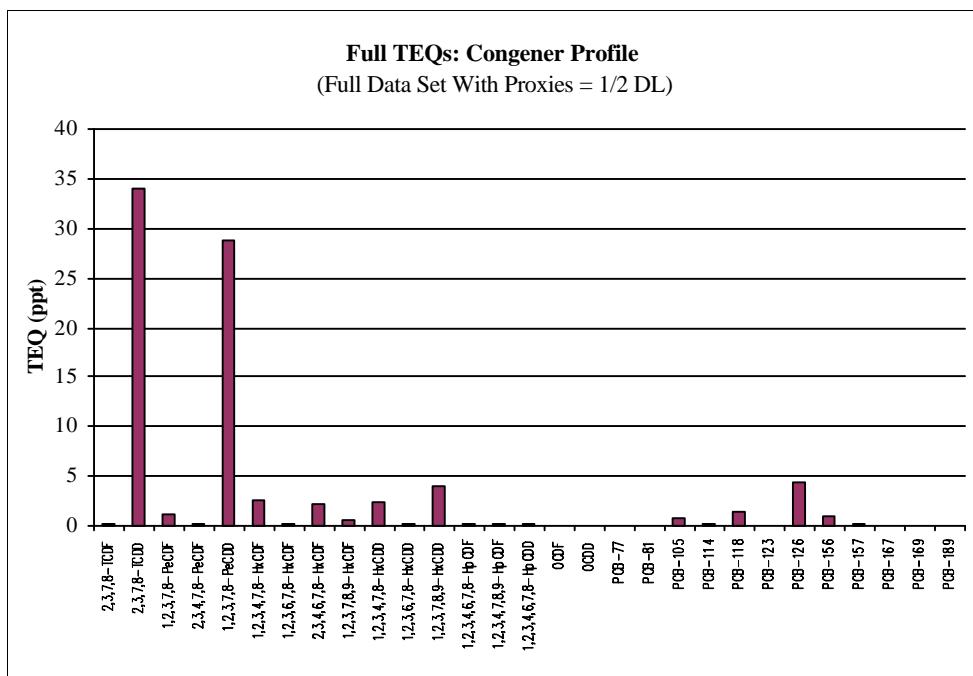
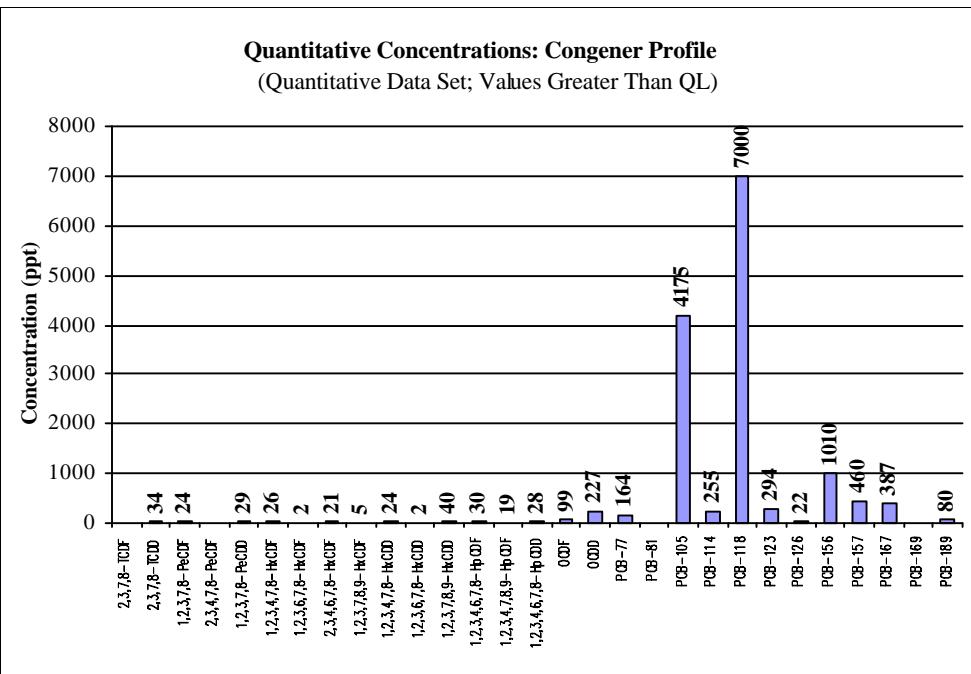
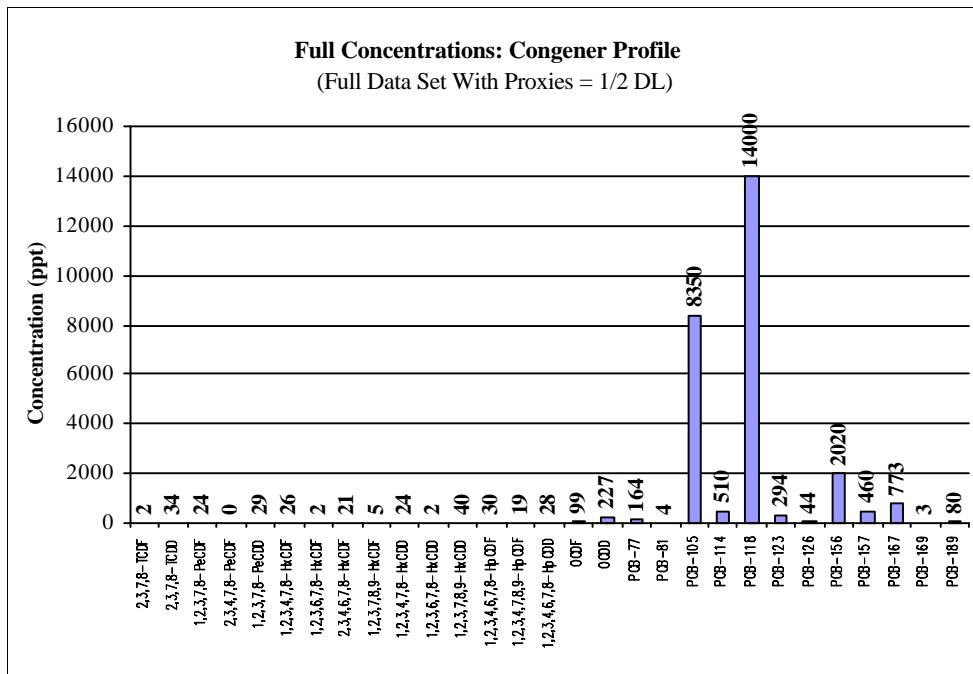
*Sample*      201      PEM-F-10 PE Med Std



*Sample* 573 *PEM-F-4 PE Med Std*



*Sample*    *PC00802*    *PEM*    *PE Med Std*

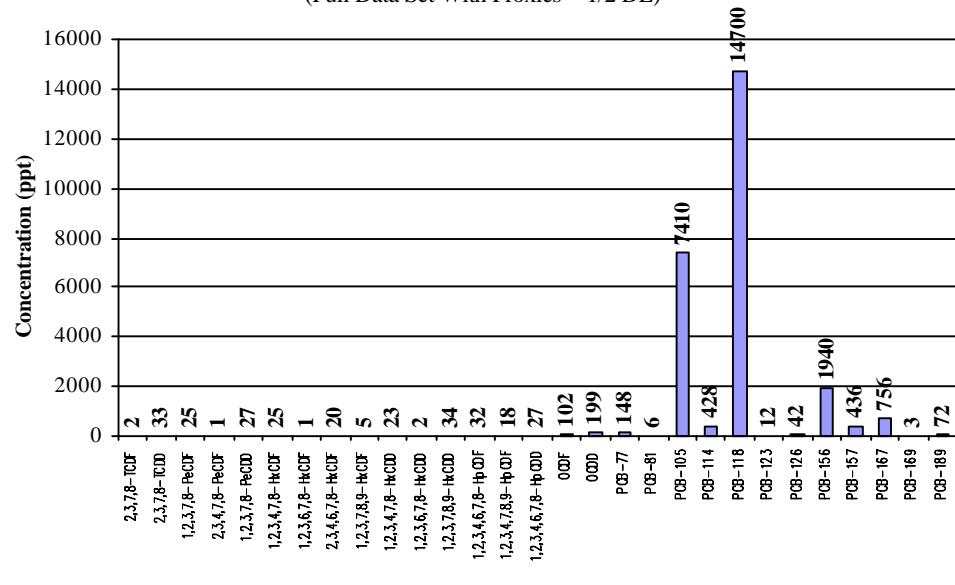


## Appendix B4. Congener Profiles for QC Samples

Sample PC00807 PEM PE Med Std

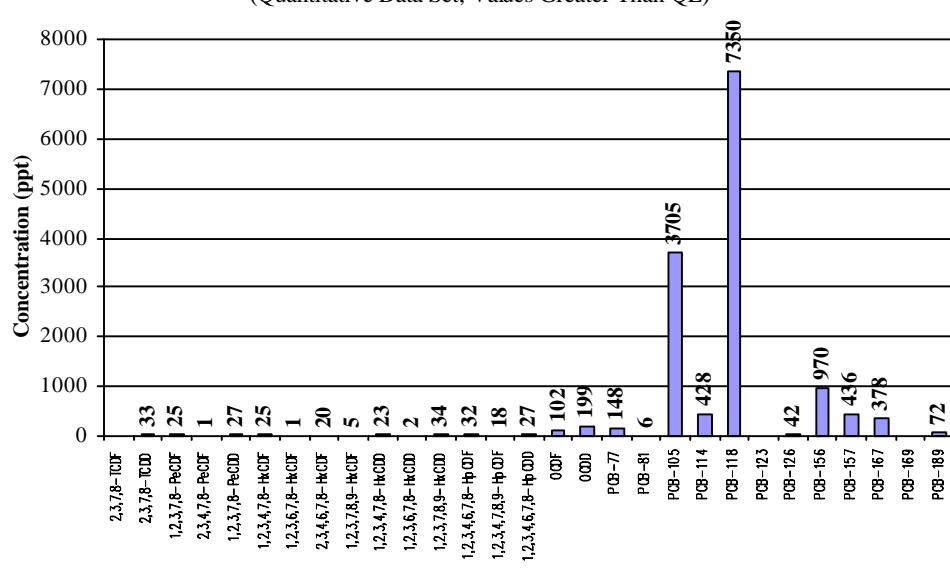
## Full Concentrations: Congener Profile

(Full Data Set With Proxies = 1/2 DL)



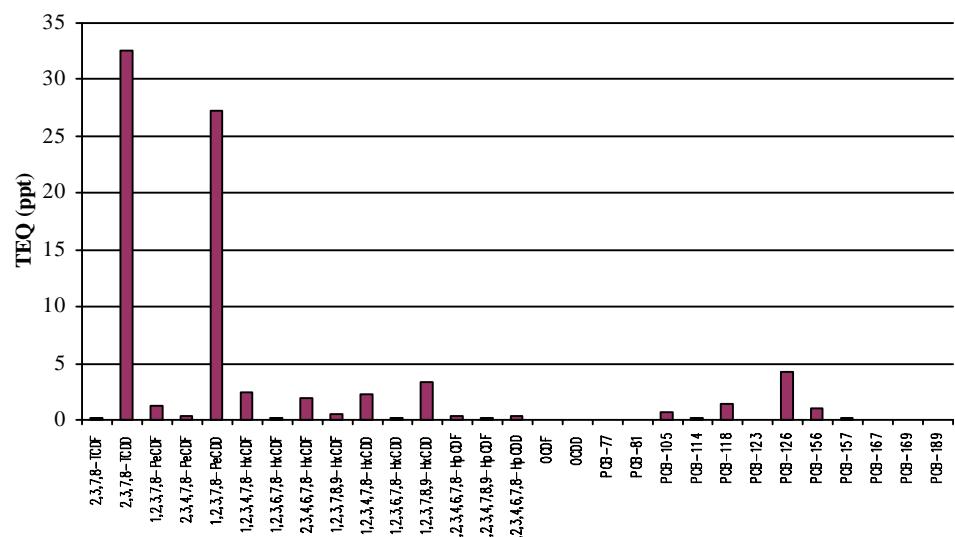
## Quantitative Concentrations: Congener Profile

(Quantitative Data Set; Values Greater Than QL)



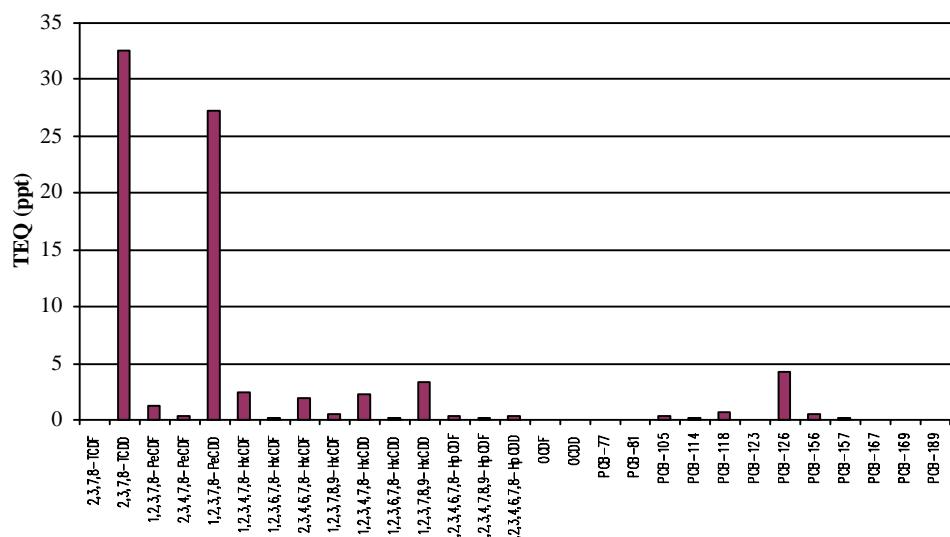
## Full TEQs: Congener Profile

(Full Data Set With Proxies = 1/2 DL)



## Quantitative TEQs: Congener Profile

(Quantitative Data Set; Values Greater Than QL)

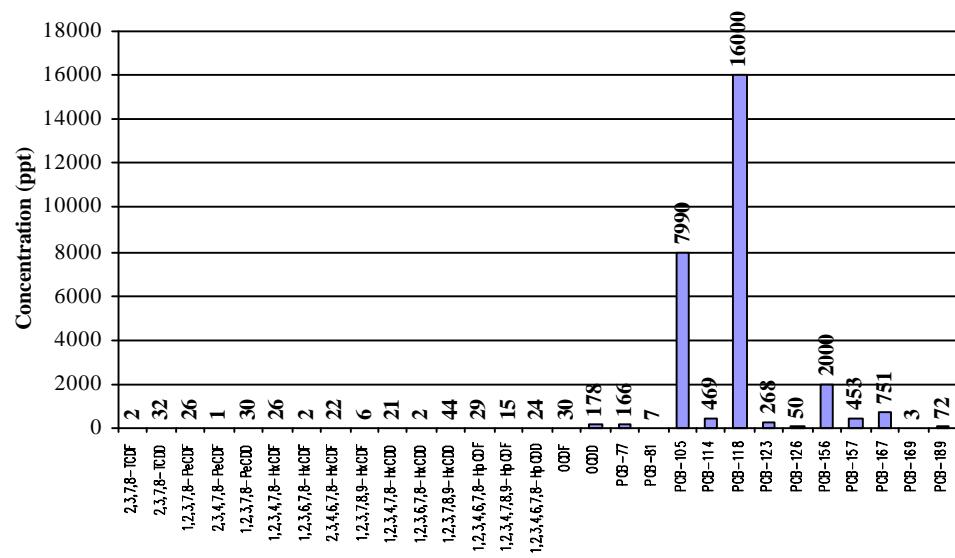


## Appendix B4. Congener Profiles for QC Samples

Sample PC00820 PEM PE Med Std

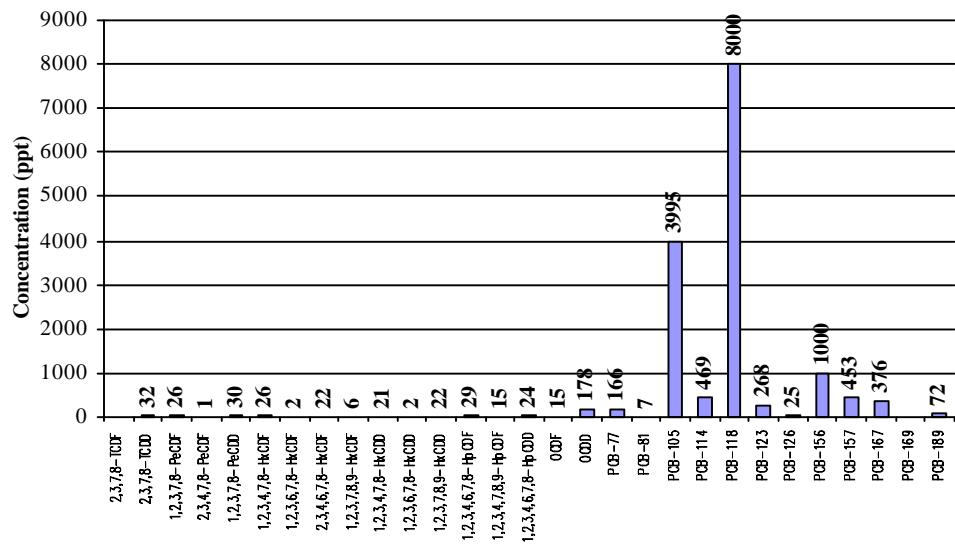
## Full Concentrations: Congener Profile

(Full Data Set With Proxies = 1/2 DL)



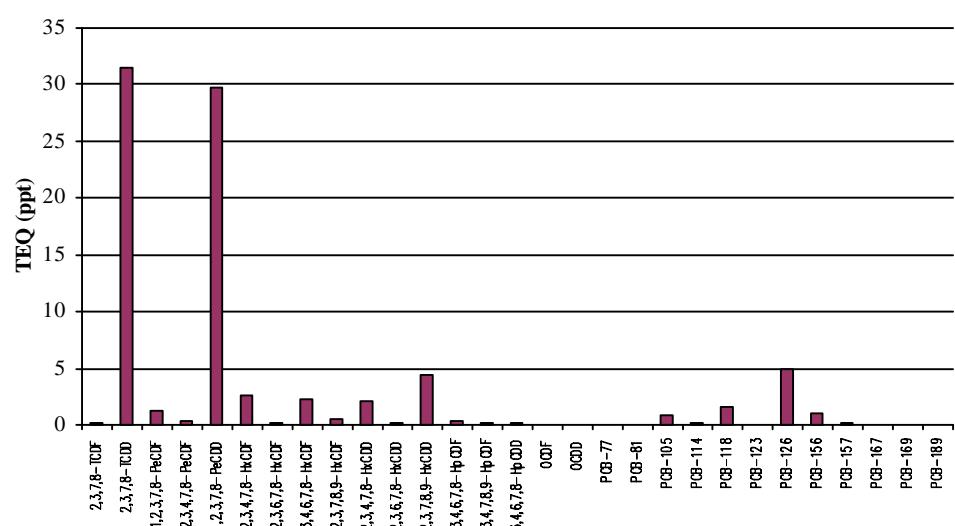
## Quantitative Concentrations: Congener Profile

(Quantitative Data Set; Values Greater Than QL)



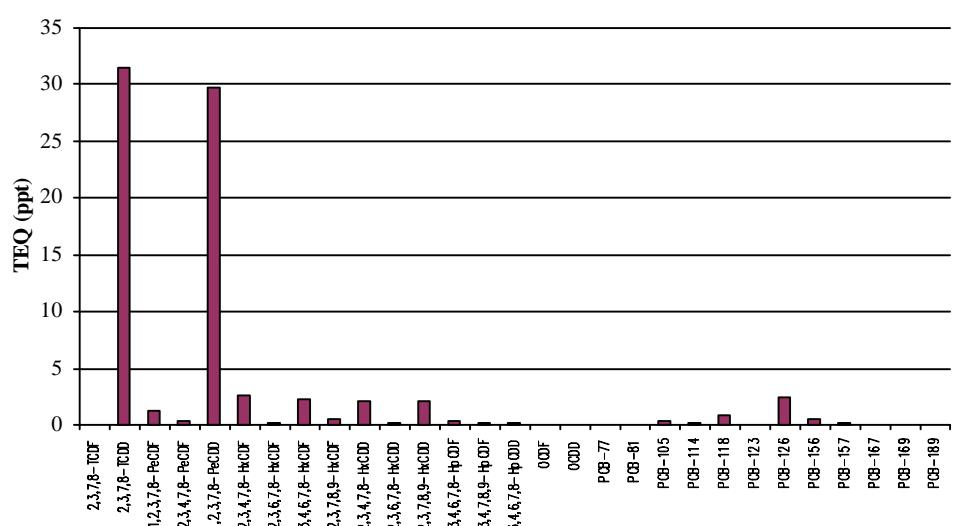
## Full TEQs: Congener Profile

(Full Data Set With Proxies = 1/2 DL)



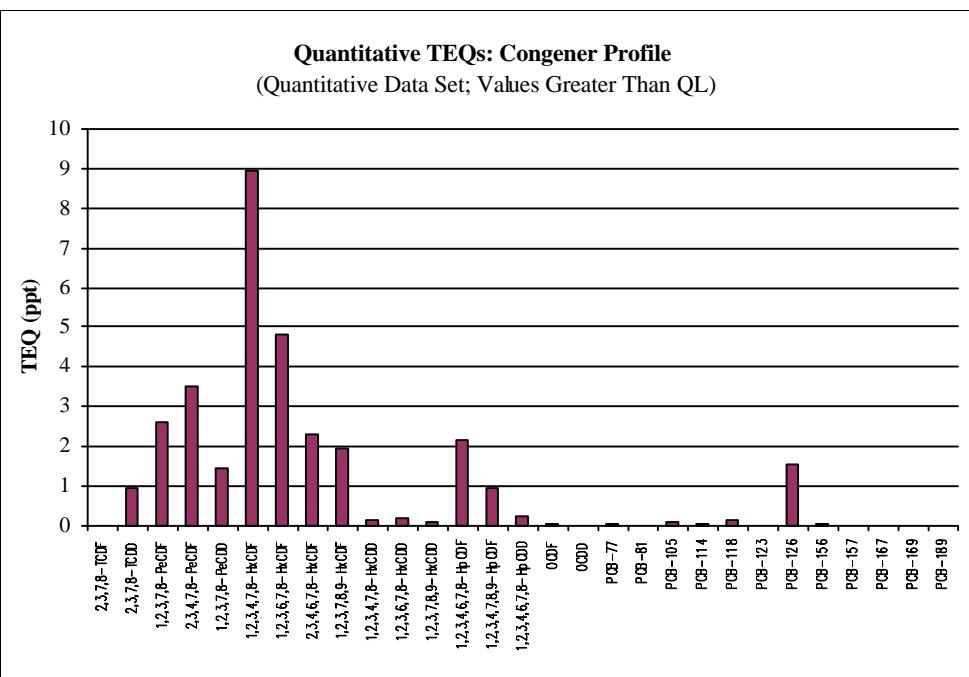
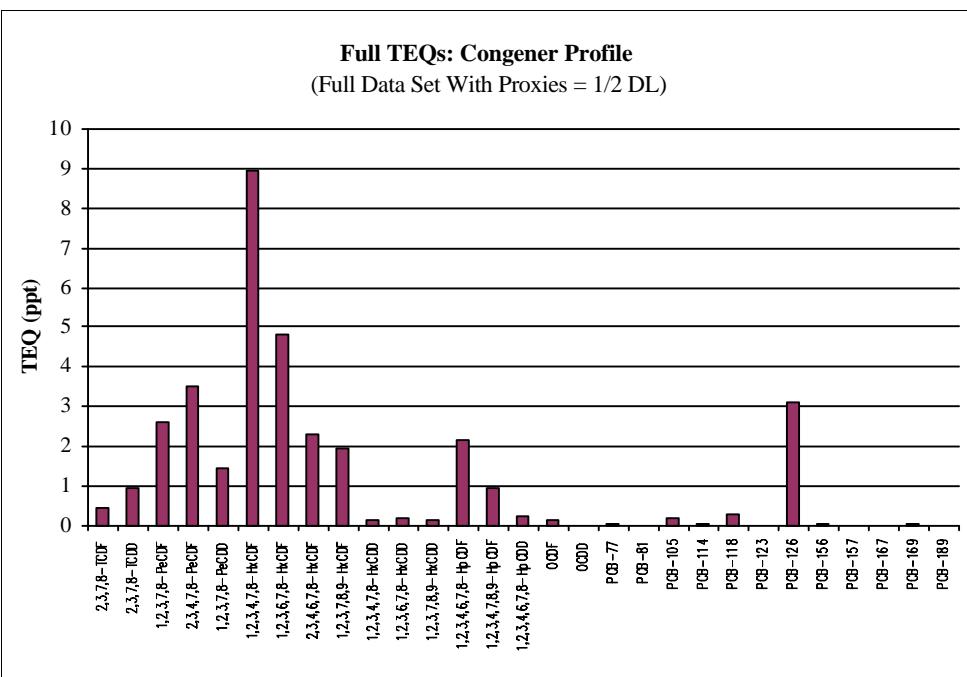
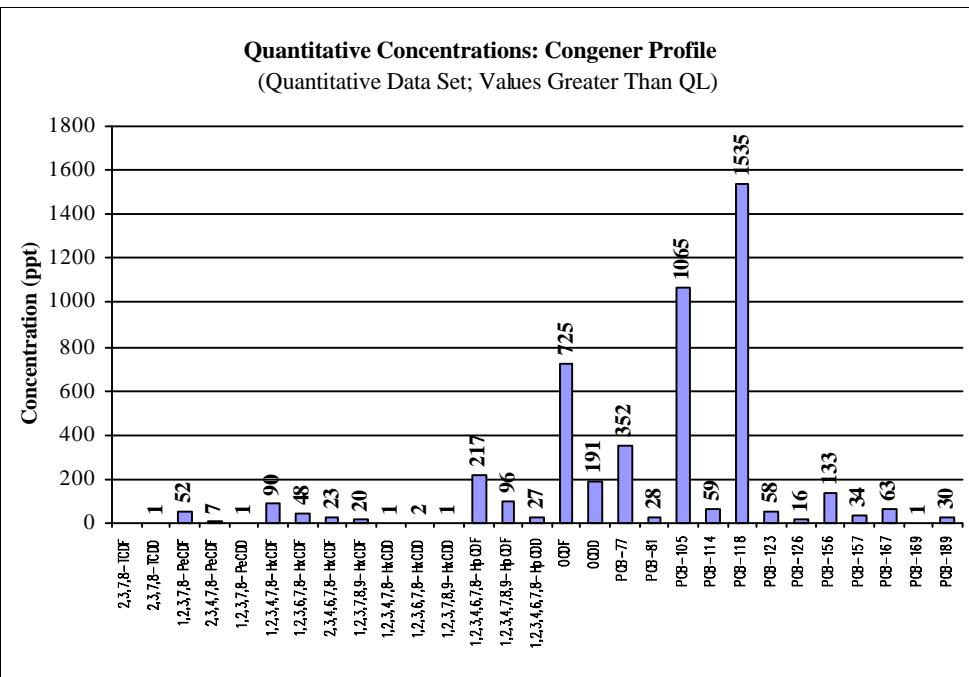
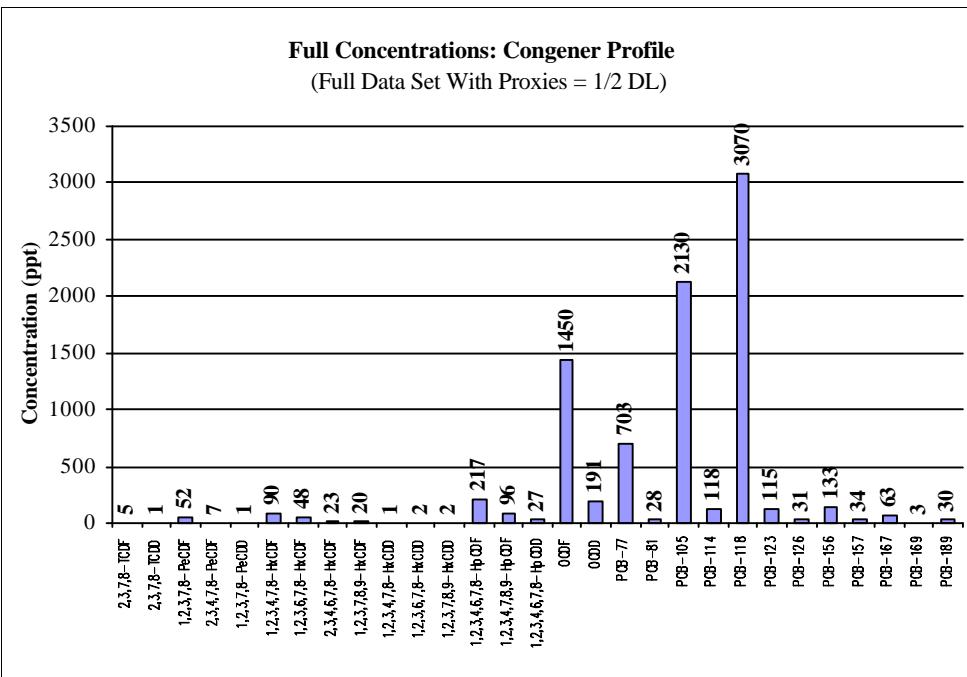
## Quantitative TEQs: Congener Profile

(Quantitative Data Set; Values Greater Than QL)



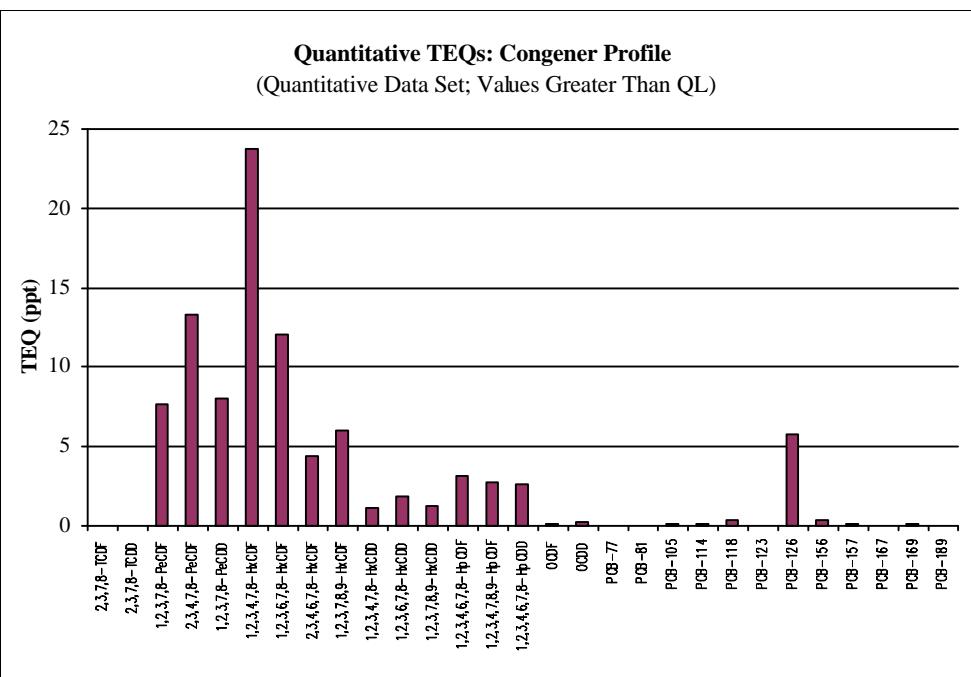
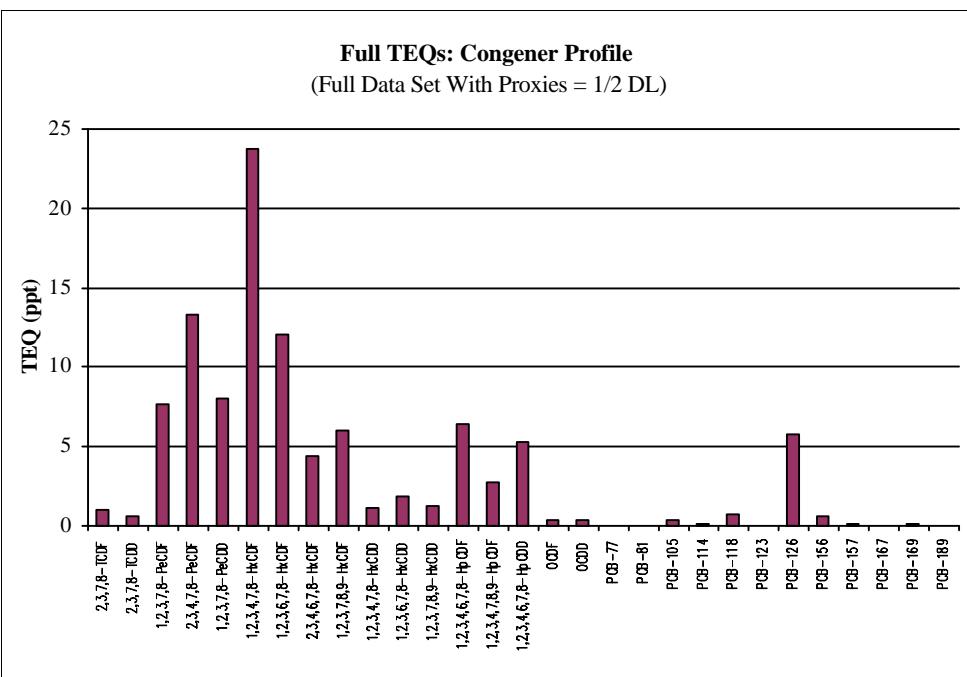
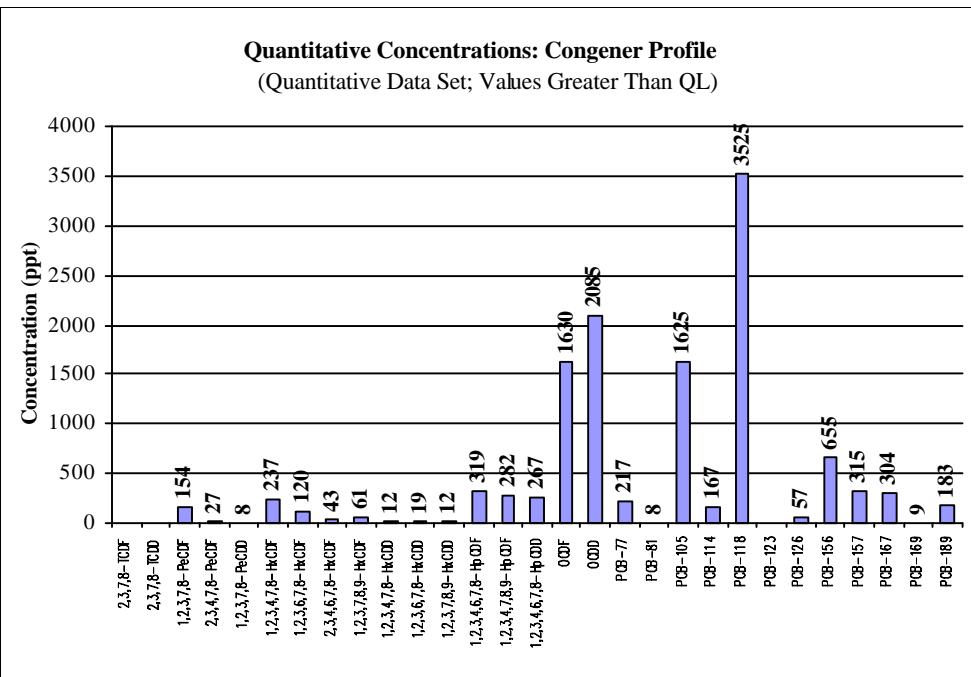
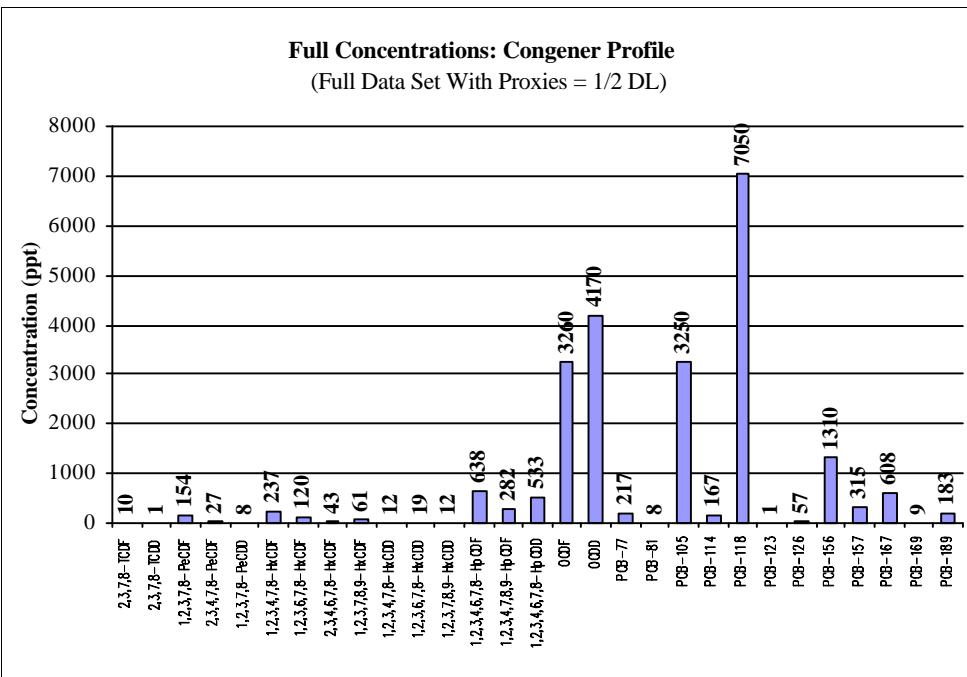
*Sample*      **282-R**      **SP-3**      *Replicate*

Biased replicate sample; reanalyzed due to high results.



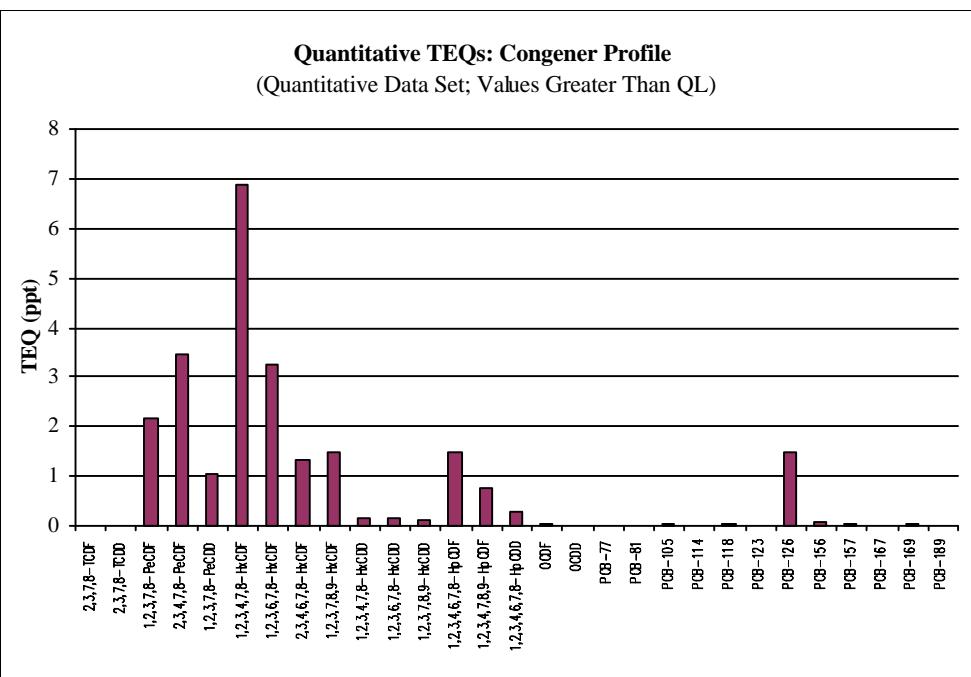
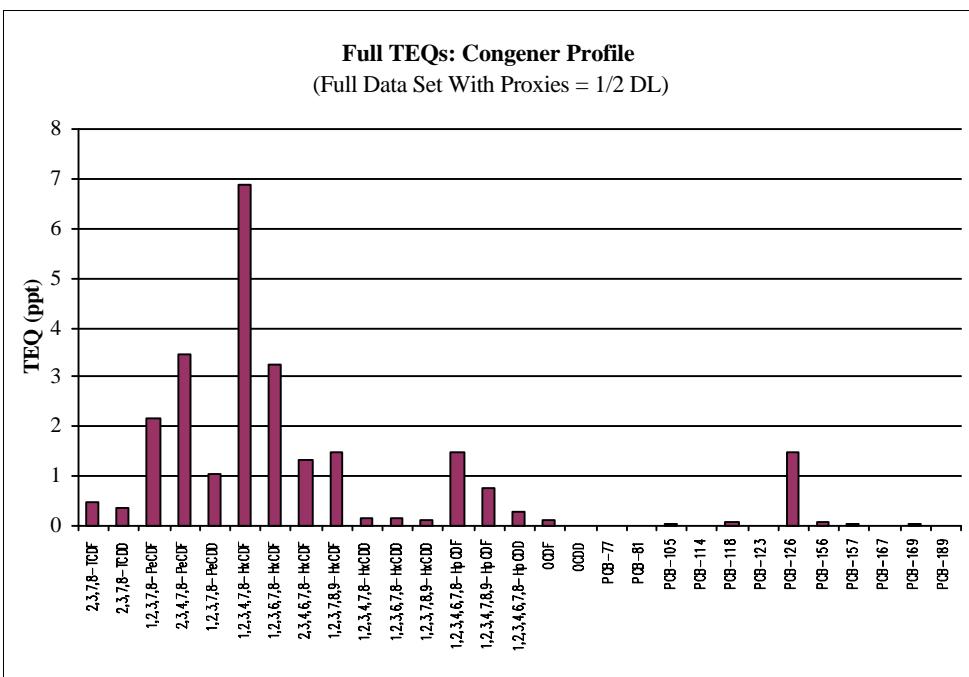
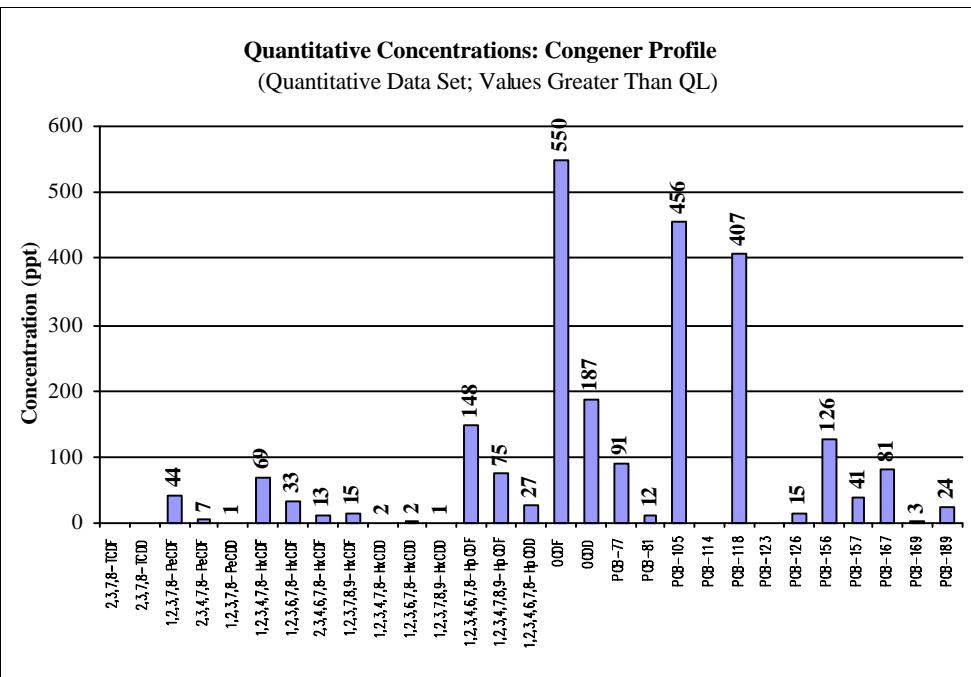
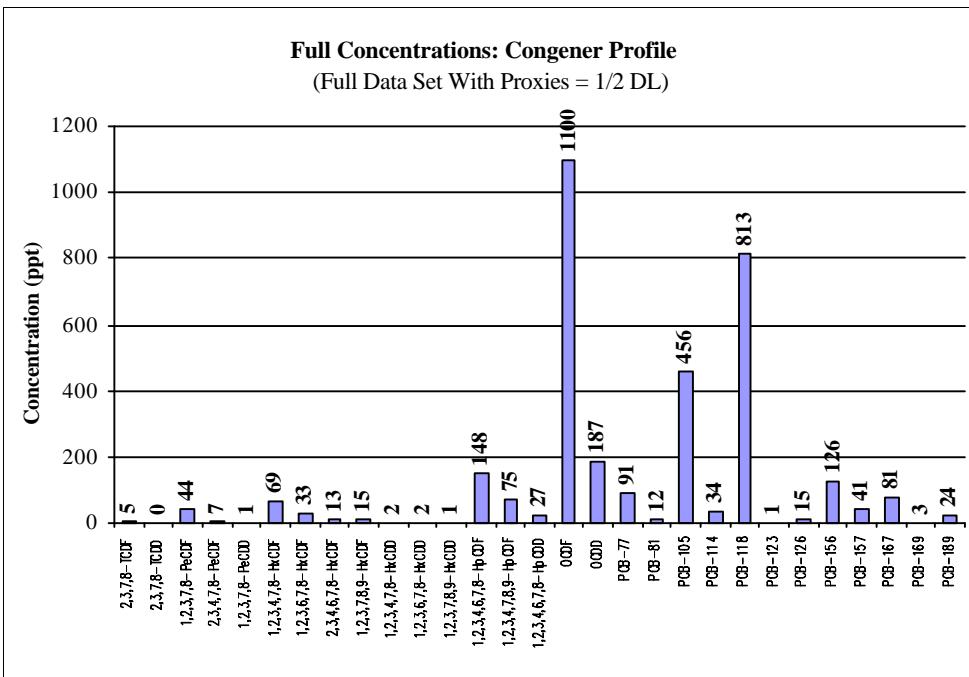
*Sample*      347-R      SP-7      *Replicate*

Biased replicate sample; original sample reanalyzed due to high results.



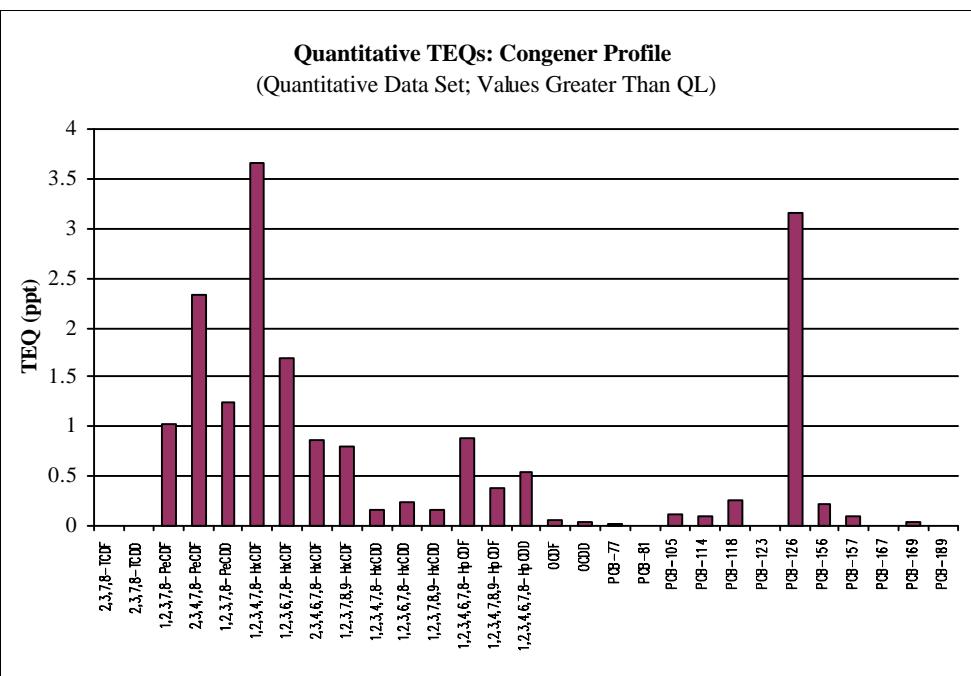
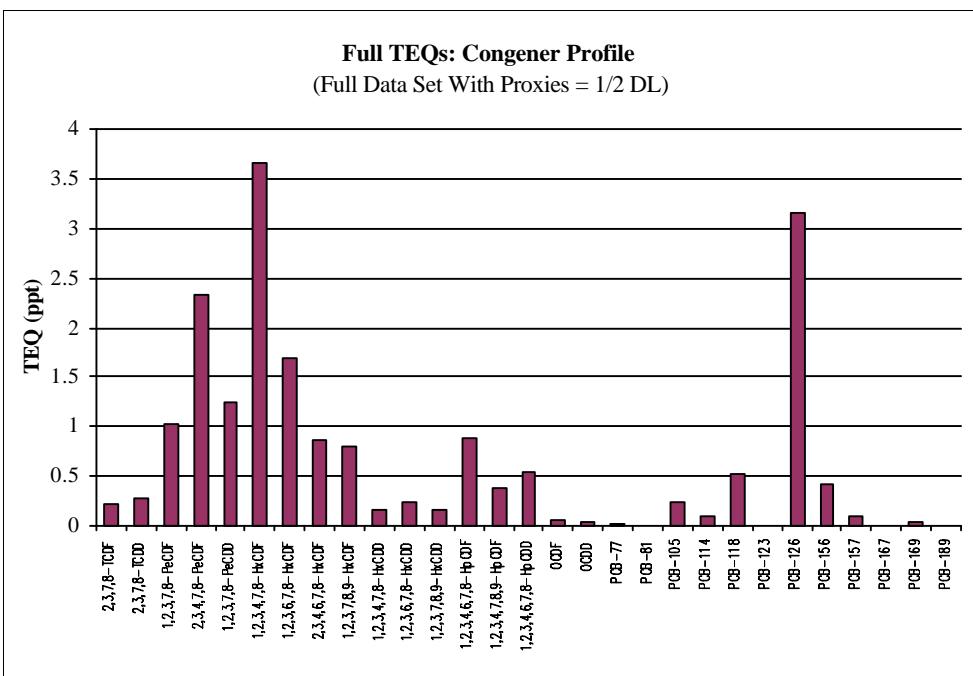
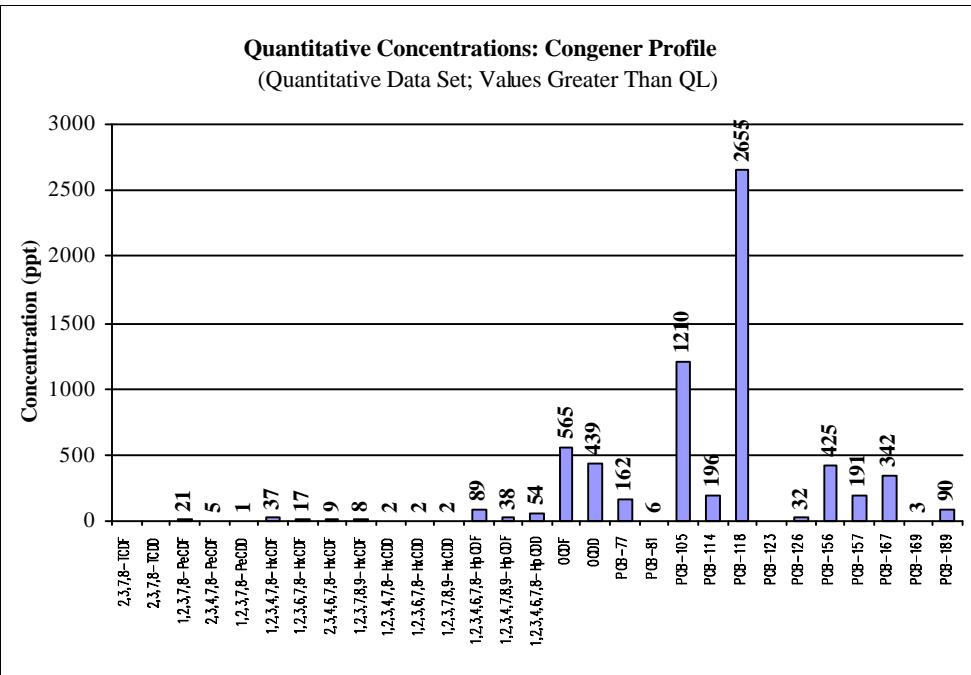
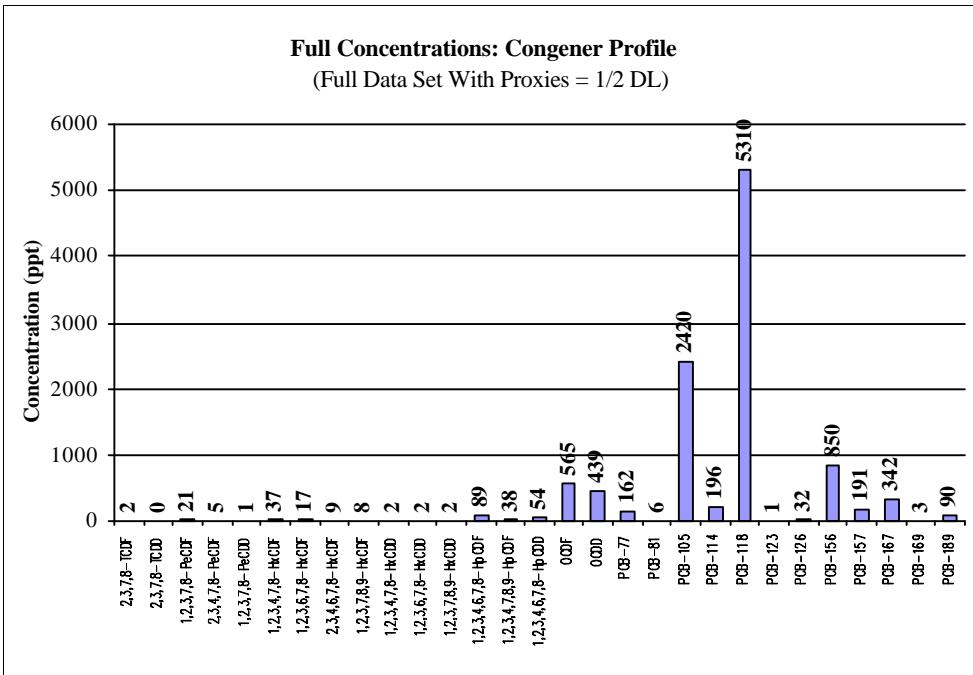
*Sample*      *515-R*      *SP-2*      *Replicate*

Biased replicate sample; original sample reanalyzed due to high results.



*Sample*      **523-R**      **SP-6**      *Replicate*

Biased replicate sample; original sample reanalyzed due to high results.



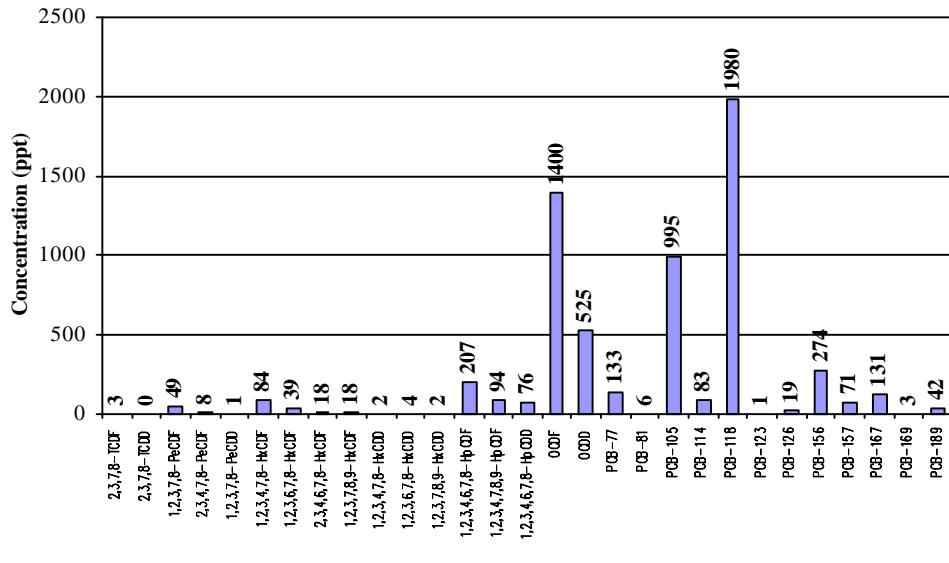
## Appendix B4. Congener Profiles for QC Samples

*Sample**555-R**SP-8**Replicate*

Biased replicate sample; original sample reanalyzed due to high results.

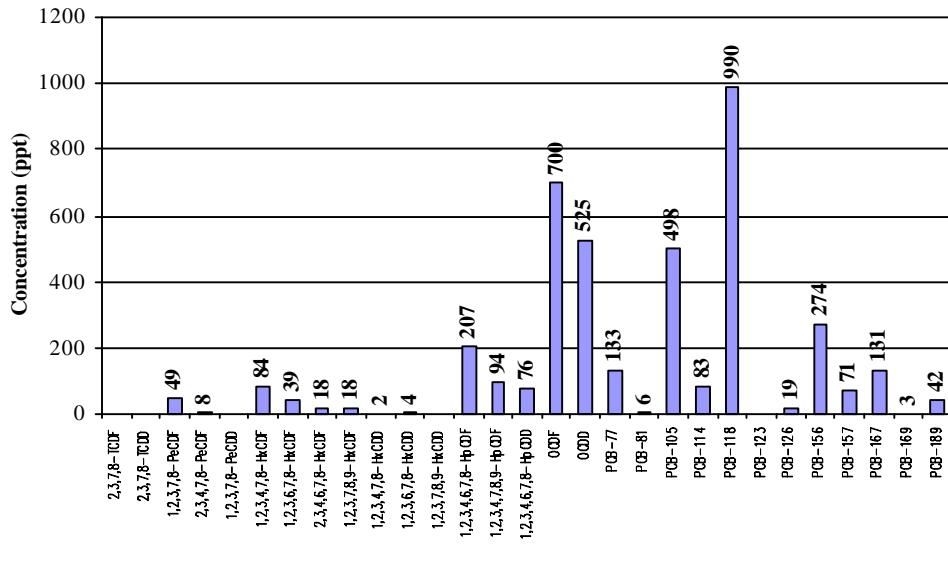
## Full Concentrations: Congener Profile

(Full Data Set With Proxies = 1/2 DL)



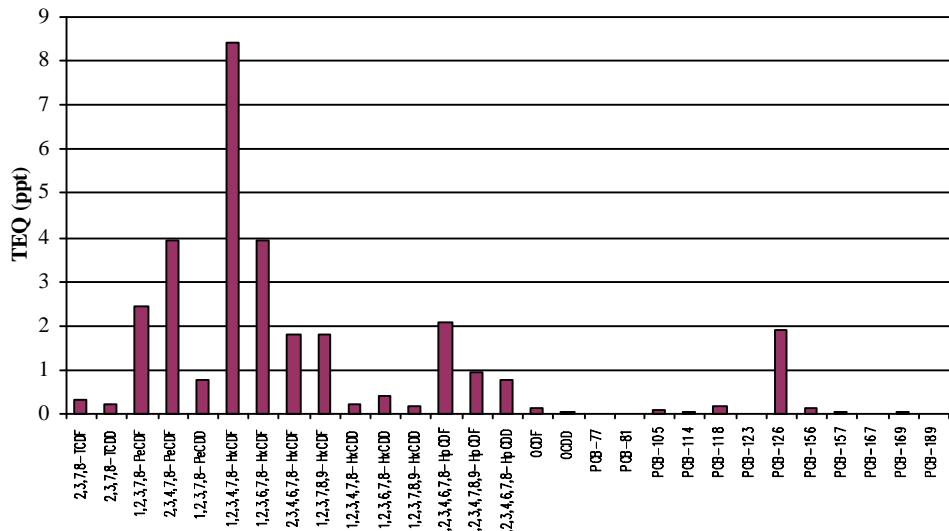
## Quantitative Concentrations: Congener Profile

(Quantitative Data Set; Values Greater Than QL)



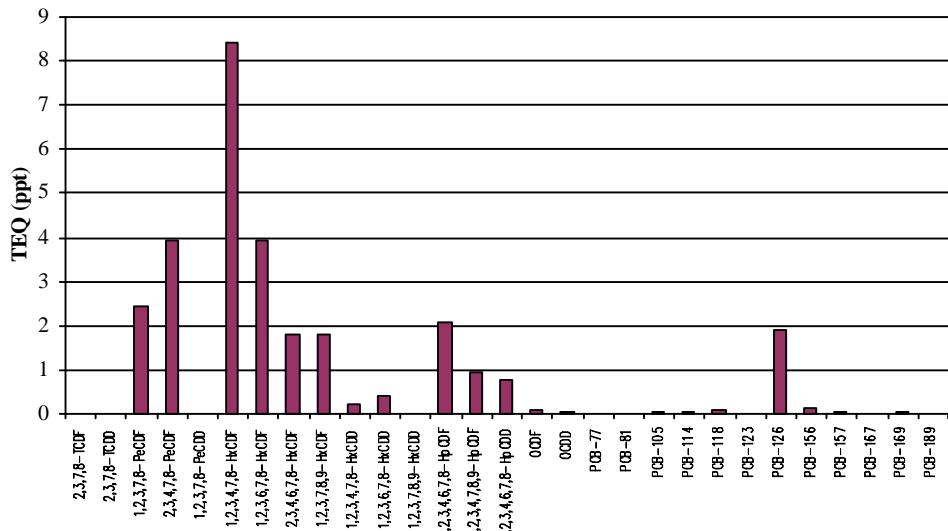
## Full TEQs: Congener Profile

(Full Data Set With Proxies = 1/2 DL)



## Quantitative TEQs: Congener Profile

(Quantitative Data Set; Values Greater Than QL)

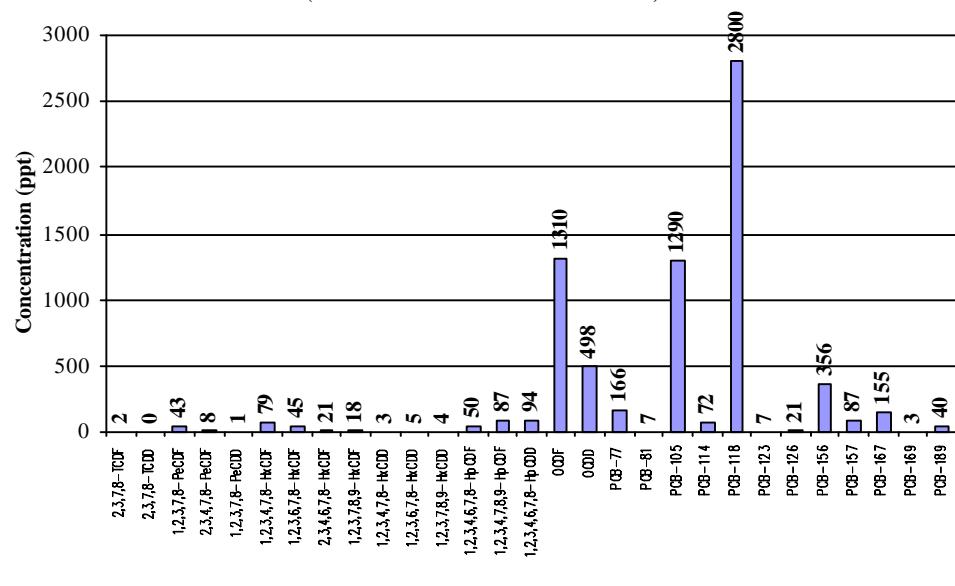


## Appendix B4. Congener Profiles for QC Samples

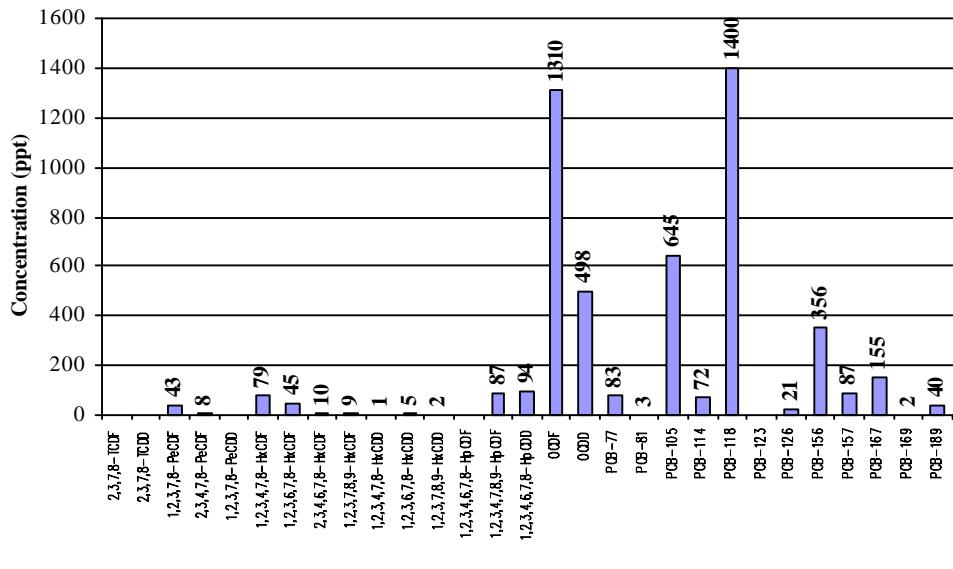
*Sample*      **246**      *SP-8*      *Split*

**Full Concentrations: Congener Profile**

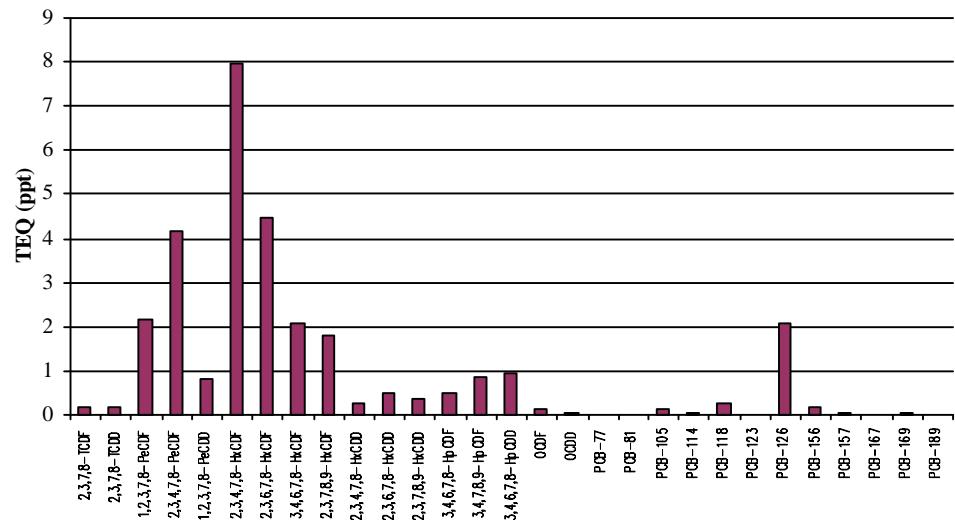
(Full Data Set With Proxies = 1/2 DL)

**Quantitative Concentrations: Congener Profile**

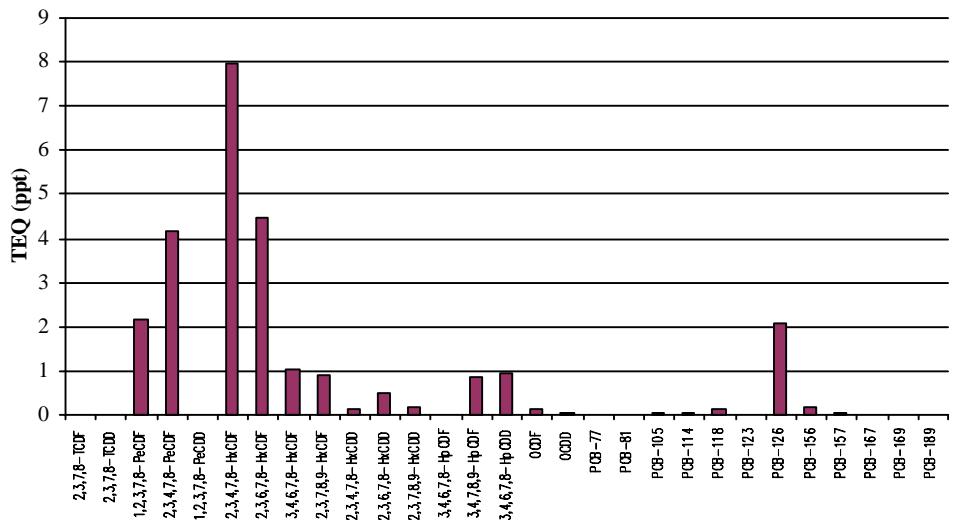
(Quantitative Data Set; Values Greater Than QL)

**Full TEQs: Congener Profile**

(Full Data Set With Proxies = 1/2 DL)

**Quantitative TEQs: Congener Profile**

(Quantitative Data Set; Values Greater Than QL)

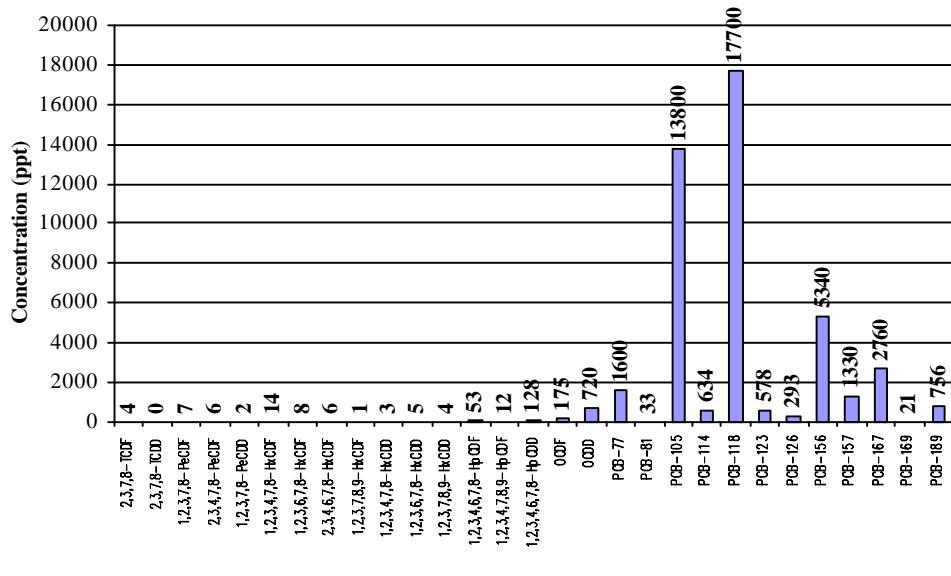


## Appendix B4. Congener Profiles for QC Samples

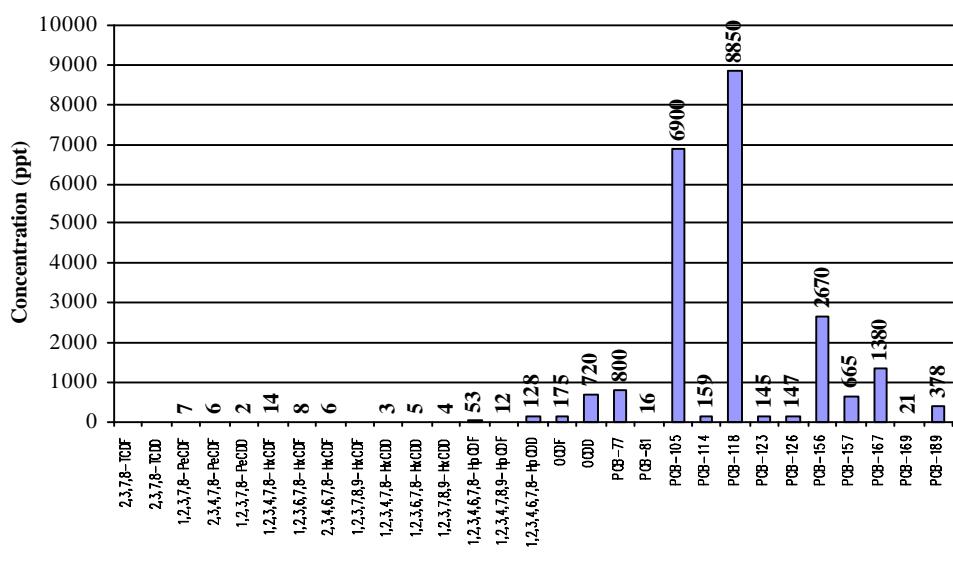
FINAL

*Sample      407      P-5      Split***Full Concentrations: Congener Profile**

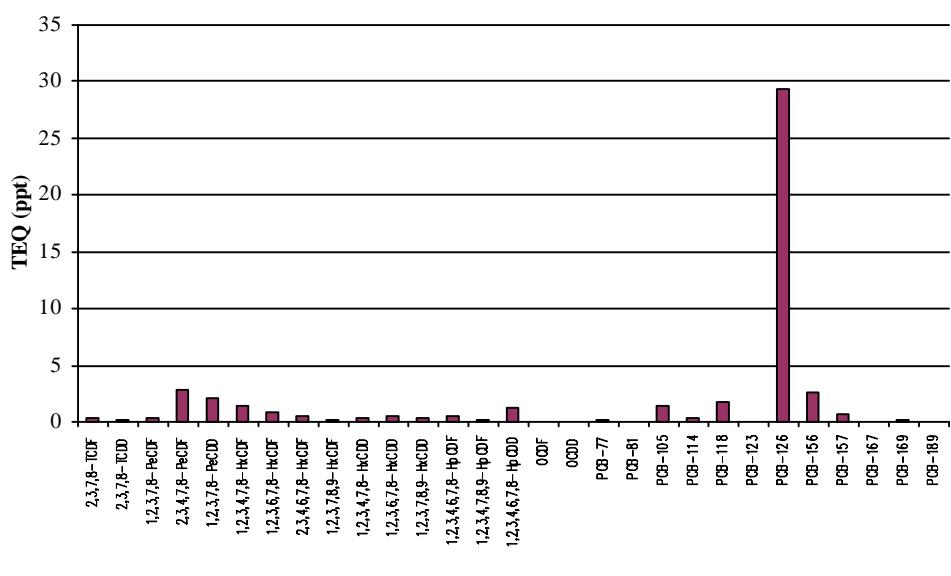
(Full Data Set With Proxies = 1/2 DL)

**Quantitative Concentrations: Congener Profile**

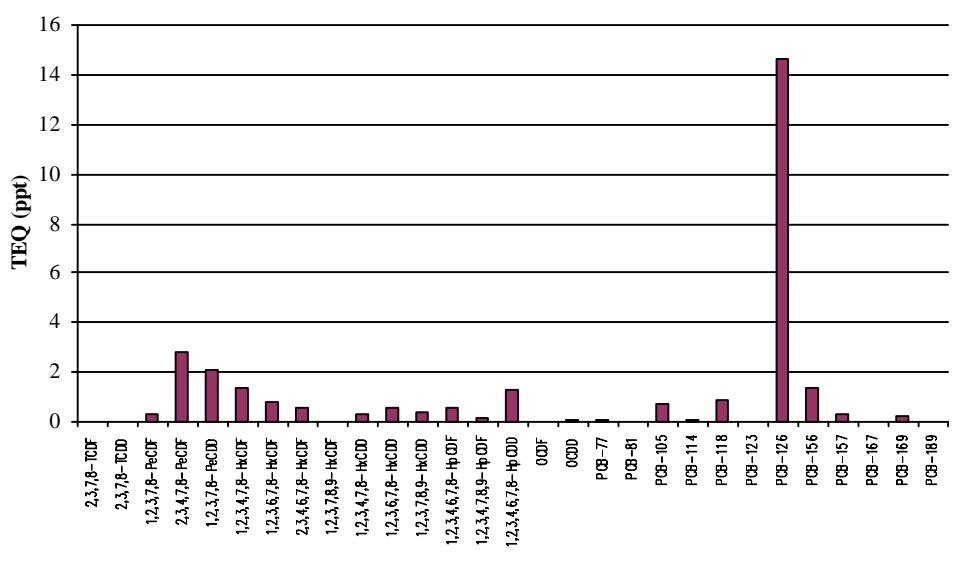
(Quantitative Data Set; Values Greater Than QL)

**Full TEQs: Congener Profile**

(Full Data Set With Proxies = 1/2 DL)

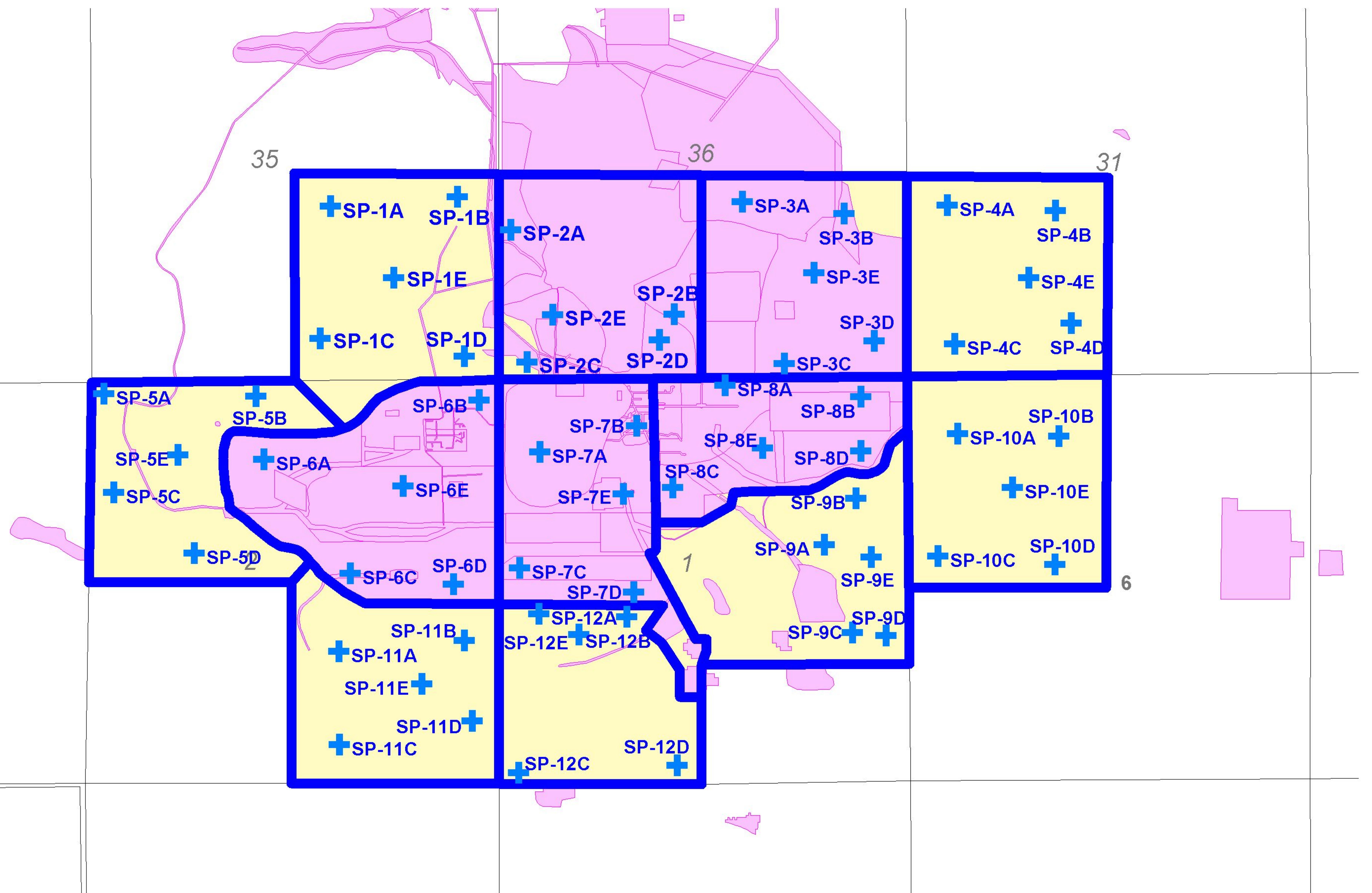
**Quantitative TEQs: Congener Profile**

(Quantitative Data Set; Values Greater Than QL)



## **APPENDIX C**

### **DETAILED SAMPLE LOCATION INFORMATION**



South Plants Study Area

South Plants Sample Sites

SP-12 Composite Point Identification



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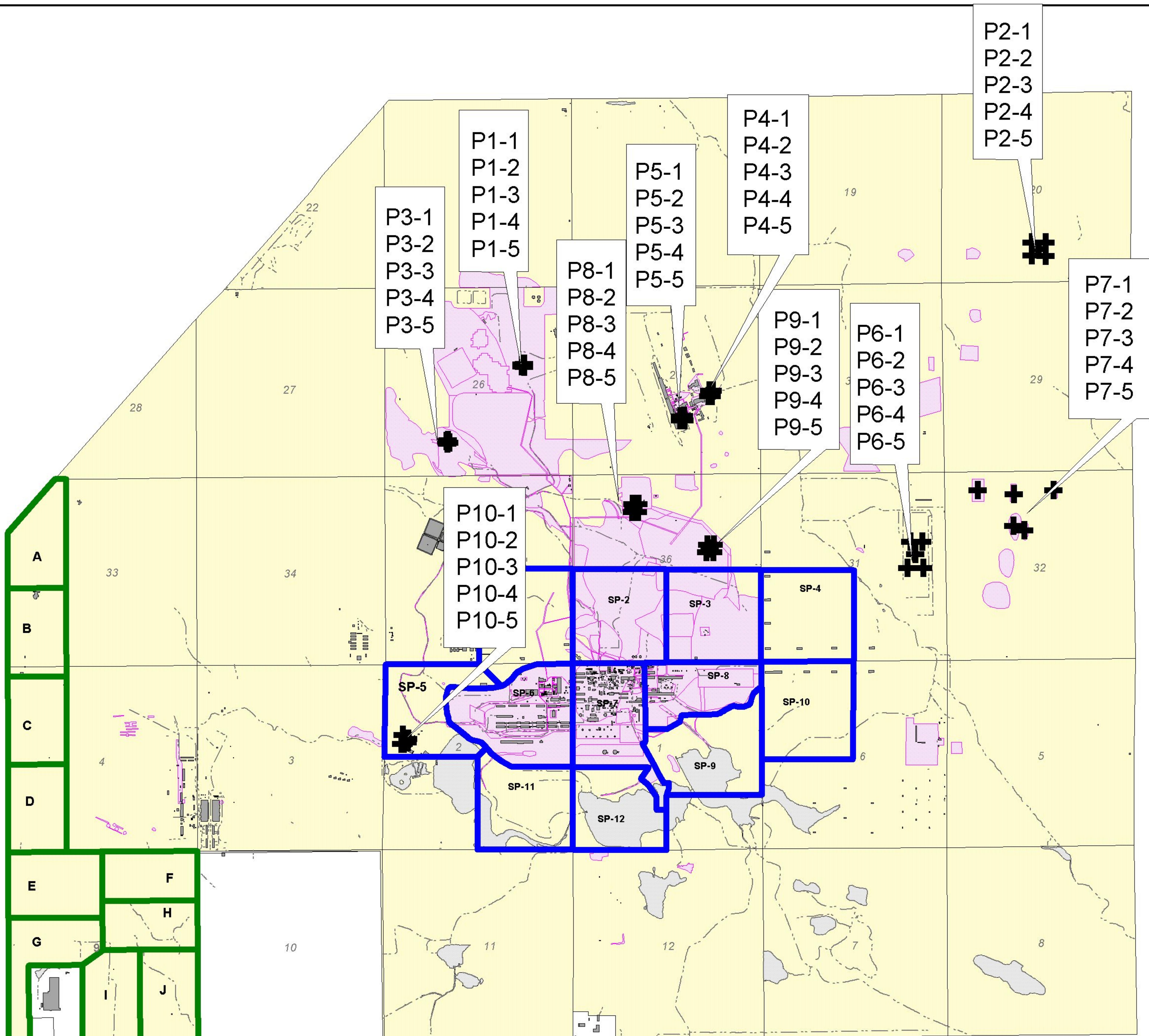
1000 0 1000 2000 Feet



**ROCKY MOUNTAIN ARSENAL  
SOUTH PLANTS SUBSAMPLE LOCATIONS**

PtName	Sample ID	Easting	Northing	Surveyor
SP-1	299	2182221.50	181935.69	Average of Sub Samples
SP-1A	299-1	2181408.99	182825.97	Flatirons Surv 12-99
SP-1B	299-2	2183052.41	182950.27	Flatirons Surv 12-99
SP-1C	299-4	2181276.72	181114.45	Flatirons Surv 12-99
SP-1D	299-5	2183143.58	180886.10	Flatirons Surv 12-99
SP-1E	299-3	2182226.00	181901.64	Flatirons Surv 12-99
SP-2	515	2184700.25	181455.59	Average of Sub Samples
SP-2A	515-1	2183739.53	182518.95	Flatirons Surv 12-99
SP-2B	515-2	2185859.52	181431.42	MorrisonKnudsen
SP-2C	515-4	2183950.24	180807.85	Flatirons Surv 12-99
SP-2D	515-5	2185666.94	181097.30	MorrisonKnudsen
SP-2E	515-3	2184284.73	181422.46	Flatirons Surv 12-99
SP-3	282	2187637.68	181891.07	Average of Sub Samples
SP-3A	282-1	2186739.00	182885.00	OnScreen
SP-3B	282-2	2188054.34	182734.20	MorrisonKnudsen
SP-3C	282-4	2187283.41	180787.66	MorrisonKnudsen
SP-3D	282-5	2188448.22	181083.70	MorrisonKnudsen
SP-3E	282-3	2187663.44	181964.77	MorrisonKnudsen
SP-4	909	2190222.50	181973.69	Average of Sub Samples
SP-4A	909-1	2189392.48	182838.19	MorrisonKnudsen
SP-4B	909-2	2190788.43	182770.13	MorrisonKnudsen
SP-4C	909-4	2189489.68	181047.39	MorrisonKnudsen
SP-4D	909-5	2190997.10	181310.63	MorrisonKnudsen
SP-4E	909-3	2190445.39	181902.11	MorrisonKnudsen
SP-5	218	2179321.25	179566.83	Average of Sub Samples
SP-5A	218-1	2178475.49	180401.07	Flatirons Surv 12-99
SP-5B	218-2	2180445.27	180366.82	Flatirons Surv 12-99
SP-5C	218-4	2178605.50	179121.00	Flatirons Surv 12-99
SP-5D	218-5	2179644.28	178335.87	Flatirons Surv 12-99
SP-5E	218-3	2179435.71	179609.41	Flatirons Surv 12-99
SP-6	523	2182179.00	179014.27	Average of Sub Samples
SP-6A	523-1	2180545.00	179547.84	Flatirons Surv 12-99
SP-6B	523-2	2183335.43	180314.19	Flatirons Surv 12-99
SP-6C	523-4	2181665.42	178074.31	Flatirons Surv 12-99
SP-6D	523-5	2183001.75	177930.76	Flatirons Surv 12-99
SP-6E	523-3	2182347.58	179204.26	Flatirons Surv 12-99
SP-7	347	2184776.00	178941.73	Average of Sub Samples
SP-7A	347-1	2184120.04	179647.10	Flatirons Surv 12-99
SP-7B	347-2	2185370.41	179985.22	Flatirons Surv 12-99
SP-7C	347-4	2183858.52	178143.19	Flatirons Surv 12-99
SP-7D	347-5	2185334.55	177832.26	Flatirons Surv 12-99

PtName	Sample ID	Easting	Northing	Surveyor
SP-7E	347-3	2185196.34	179100.90	Flatirons Surv 12-99
SP-8	555	2187180.50	179881.81	Average of Sub Samples
SP-8A	555-1	2186515.27	180506.64	Flatirons Surv 12-99
SP-8B	555-2	2188272.72	180363.64	Flatirons Surv 12-99
SP-8C	555-4	2185838.01	179186.85	Flatirons Surv 12-99
SP-8D	555-5	2188274.96	179655.74	Flatirons Surv 12-99
SP-8E	555-3	2187001.88	179696.17	Flatirons Surv 12-99
SP-9	497	2188235.75	178070.78	Average of Sub Samples
SP-9A	497-1	2187802.95	178443.99	Flatirons Surv 12-99
SP-9B	497-2	2188211.95	179043.52	Flatirons Surv 12-99
SP-9C	497-4	2188161.67	177309.16	MorrisonKnudsen
SP-9D	497-5	2188598.18	177271.23	MorrisonKnudsen
SP-9E	497-3	2188404.51	178286.03	Flatirons Surv 12-99
SP-10	571	2190128.75	179081.97	Average of Sub Samples
SP-10A	571-1	2189522.72	179885.05	Flatirons Surv 12-99
SP-10B	571-2	2190833.24	179849.18	Flatirons Surv 12-99
SP-10C	571-4	2189270.28	178298.02	Flatirons Surv 12-99
SP-10D	571-5	2190785.24	178189.79	Flatirons Surv 12-99
SP-10E	571-3	2190231.97	179187.84	Flatirons Surv 12-99
SP-11	461	2182405.50	176587.16	Average of Sub Samples
SP-11A	461-1	2181515.68	177065.07	MorrisonKnudsen
SP-11B	461-2	2183144.20	177207.48	MorrisonKnudsen
SP-11C	461-4	2181526.05	175857.56	MorrisonKnudsen
SP-11D	461-5	2183246.36	176163.04	MorrisonKnudsen
SP-11E	461-3	2182594.83	176642.63	MorrisonKnudsen
SP-12	692	2184742.75	176684.67	Average of Sub Samples
SP-12A	692-1	2184106.52	177550.03	Flatirons Surv 12-99
SP-12B	692-2	2185242.45	177511.55	Flatirons Surv 12-99
SP-12C	692-4	2183846.73	175492.97	Flatirons Surv 12-99
SP-12D	692-5	2185895.94	175586.37	Flatirons Surv 12-99
SP-12E	692-3	2184622.54	177282.40	Flatirons Surv 12-99



✚ Purposeful SubSample Sites  
P1-1 SubSample Point Identification



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3000 0 3000 6000 Feet



**ROCKY MOUNTAIN ARSENAL  
PURPOSEFUL SUBSAMPLE LOCATIONS**

PtName	Sample ID	Easting	Northing	Surveyor
P1	105	2182179.00	188954.30	Average of Sub Samples
P1-1	105-1	2182142.68	188986.79	MorrisonKnudsen
P1-2	105-2	2182213.14	188992.11	MorrisonKnudsen
P1-3	105-3	2182177.83	188953.00	MorrisonKnudsen
P1-4	105-4	2182145.52	188922.66	MorrisonKnudsen
P1-5	105-5	2182215.27	188916.90	MorrisonKnudsen
P2	769	2196667.00	192218.61	Average of Sub Samples
P2-1	769-1	2196475.05	192399.05	Flatirons Surv 12-99
P2-2	769-2	2196857.04	192399.01	Flatirons Surv 12-99
P2-3	769-3	2196671.02	192222.02	Flatirons Surv 12-99
P2-4	769-4	2196467.95	192040.01	Flatirons Surv 12-99
P2-5	769-5	2196864.03	192032.94	Flatirons Surv 12-99
P3	819	2180076.50	186806.63	Average of Sub Samples
P3-1	819-1	2180035.03	186824.81	MorrisonKnudsen
P3-2	819-2	2180080.11	186853.51	MorrisonKnudsen
P3-3	819-3	2180075.31	186805.05	MorrisonKnudsen
P3-4	819-4	2180066.41	186757.82	MorrisonKnudsen
P3-5	819-5	2180125.10	186791.95	MorrisonKnudsen
P4	157	2187456.00	188168.06	Average of Sub Samples
P4-1	157-1	2187411.94	188244.04	Flatirons Surv 12-99
P4-2	157-2	2187517.94	188248.14	Flatirons Surv 12-99
P4-3	157-3	2187464.03	188158.13	Flatirons Surv 12-99
P4-4	157-4	2187392.03	188091.04	Flatirons Surv 12-99
P4-5	157-5	2187494.12	188098.95	Flatirons Surv 12-99
P5	273	2186661.75	187468.36	Average of Sub Samples
P5-1	273-1	2186595.93	187521.01	Flatirons Surv 12-99
P5-2	273-2	2186707.01	187530.98	Flatirons Surv 12-99
P5-3	273-3	2186675.03	187467.96	Flatirons Surv 12-99
P5-4	273-4	2186601.04	187408.94	Flatirons Surv 12-99
P5-5	273-5	2186730.10	187412.91	Flatirons Surv 12-99
P6	839	2193213.50	183639.59	Average of Sub Samples
P6-1	839-1	2193069.07	184011.12	Flatirons Surv 12-99
P6-2	839-2	2193391.92	184004.03	Flatirons Surv 12-99
P6-3	839-3	2193201.02	183656.95	Flatirons Surv 12-99
P6-4	839-4	2192982.05	183263.00	Flatirons Surv 12-99
P6-5	839-5	2193422.88	183262.85	Flatirons Surv 12-99
P7	270	2196046.50	185002.39	Average of Sub Samples
P7-1	270-1	2194953.01	185454.07	Flatirons Surv 12-99
P7-2	270-2	2197089.07	185445.98	Flatirons Surv 12-99
P7-3	270-3	2195966.90	185339.96	Flatirons Surv 12-99
P7-4	270-4	2195961.94	184445.00	Flatirons Surv 12-99

PtName	Sample ID	Easting	Northing	Surveyor
P7-5	270-5	2196261.00	184326.98	Flatirons Surv 12-99
P8	237	2185329.50	184947.03	Average of Sub Samples
P8-1	237-1	2185260.04	185055.04	Flatirons Surv 12-99
P8-2	237-2	2185428.04	185055.00	Flatirons Surv 12-99
P8-3	237-3	2185296.98	184950.05	Flatirons Surv 12-99
P8-4	237-4	2185243.99	184835.07	Flatirons Surv 12-99
P8-5	237-5	2185417.99	184840.01	Flatirons Surv 12-99
P9	404	2187442.75	183816.05	Average of Sub Samples
P9-1	404-1	2187366.95	183920.07	Flatirons Surv 12-99
P9-2	404-2	2187545.97	183924.96	Flatirons Surv 12-99
P9-3	404-3	2187435.01	183815.06	Flatirons Surv 12-99
P9-4	404-4	2187341.04	183710.07	Flatirons Surv 12-99
P9-5	404-5	2187525.00	183710.05	Flatirons Surv 12-99
P10	714	2178862.25	178416.45	Average of Sub Samples
P10-1	714-1	2178807.15	178580.06	Flatirons Surv 12-99
P10-2	714-2	2178958.97	178465.97	Flatirons Surv 12-99
P10-3	714-3	2178946.01	178378.14	Flatirons Surv 12-99
P10-4	714-4	2178765.00	178330.04	Flatirons Surv 12-99
P10-5	714-5	2178833.96	178328.04	Flatirons Surv 12-99

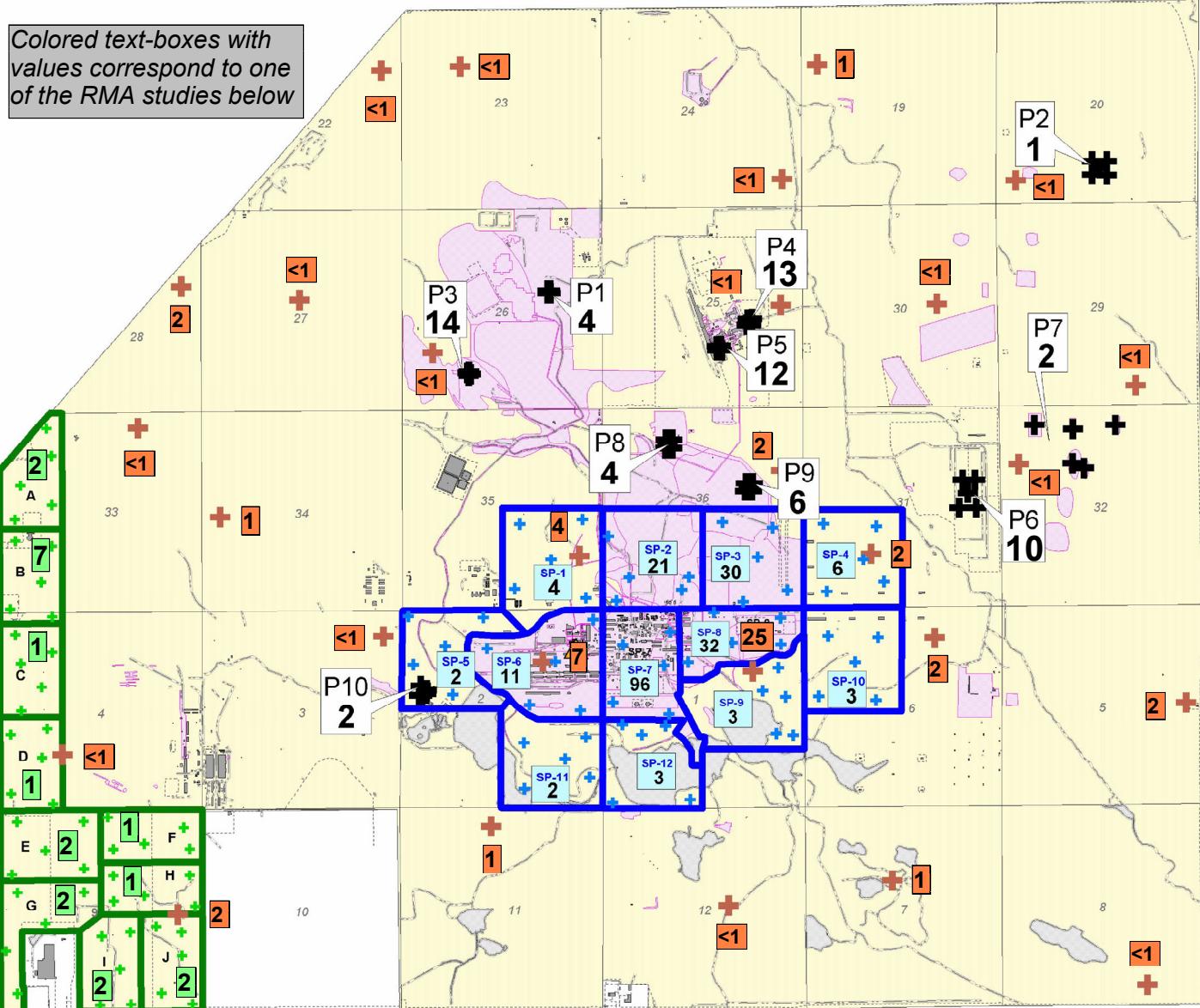
## APPENDIX D

### MAPS OF TEQ RESULTS

# Results of Dioxin Concentrations (TEQ, ppt) in Soils at the RMA

June 2001

( + symbols on map denote soil sample locations )



Study 3 - Western Tier Parcel

Study 4a - South Plants Sites

Study 2 - Random Grab Sites

Study 4b - Historic Use Sites

Study 1 - Off-post Random Study (data not shown here)



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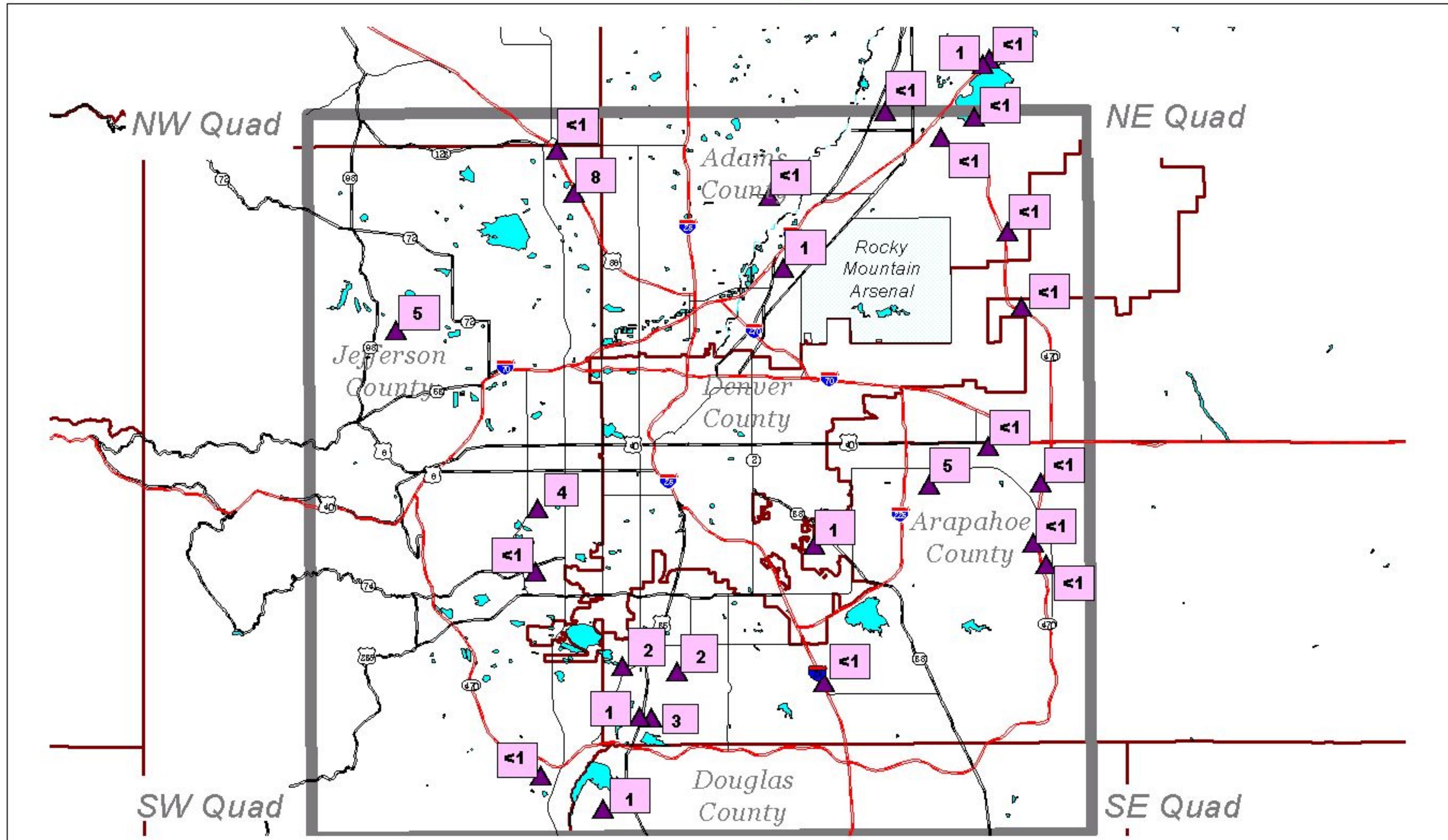


2000 0 2000 4000 Feet

ROCKY MOUNTAIN ARSENAL  
CDPHE SAMPLE LOCATIONS  
TOXICITY EQUIVALENT VALUES (ppt)  
FROM COMPOSITE SOIL SAMPLES

# Results of Denver Front Range Dioxin Study (TEQ ppt)

## Land Use - Agricultural



2 Toxicity Equivalent Values (ppt)

▲ Agricultural Sample Locations

Secondary Roads

Primary Road

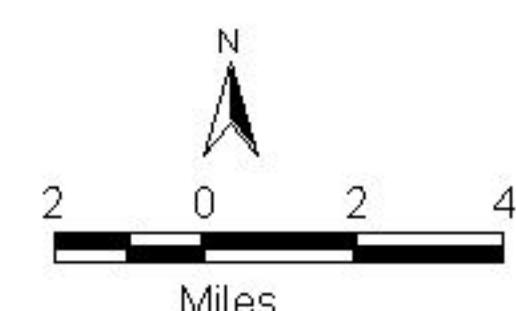
Primary Highways

Targeted Study Area

County

Lakes

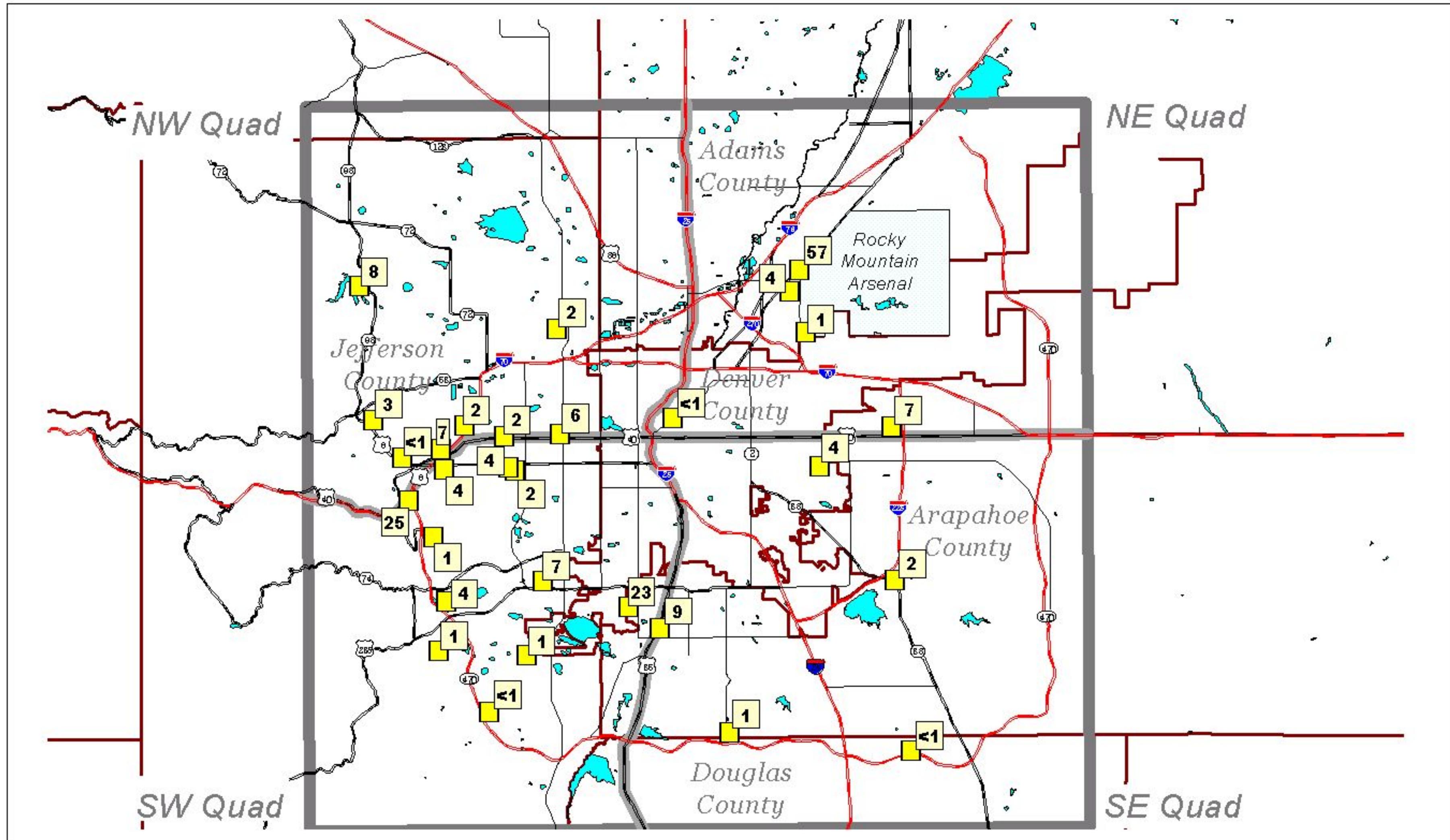
Rocky Mountain Arsenal



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# **Results of Denver Front Range Dioxin Study (TEQ ppt)**

## ***Land Use - Commercial***



**2** Toxicity Equivalent Values (ppt)

Commercial Sample Locations

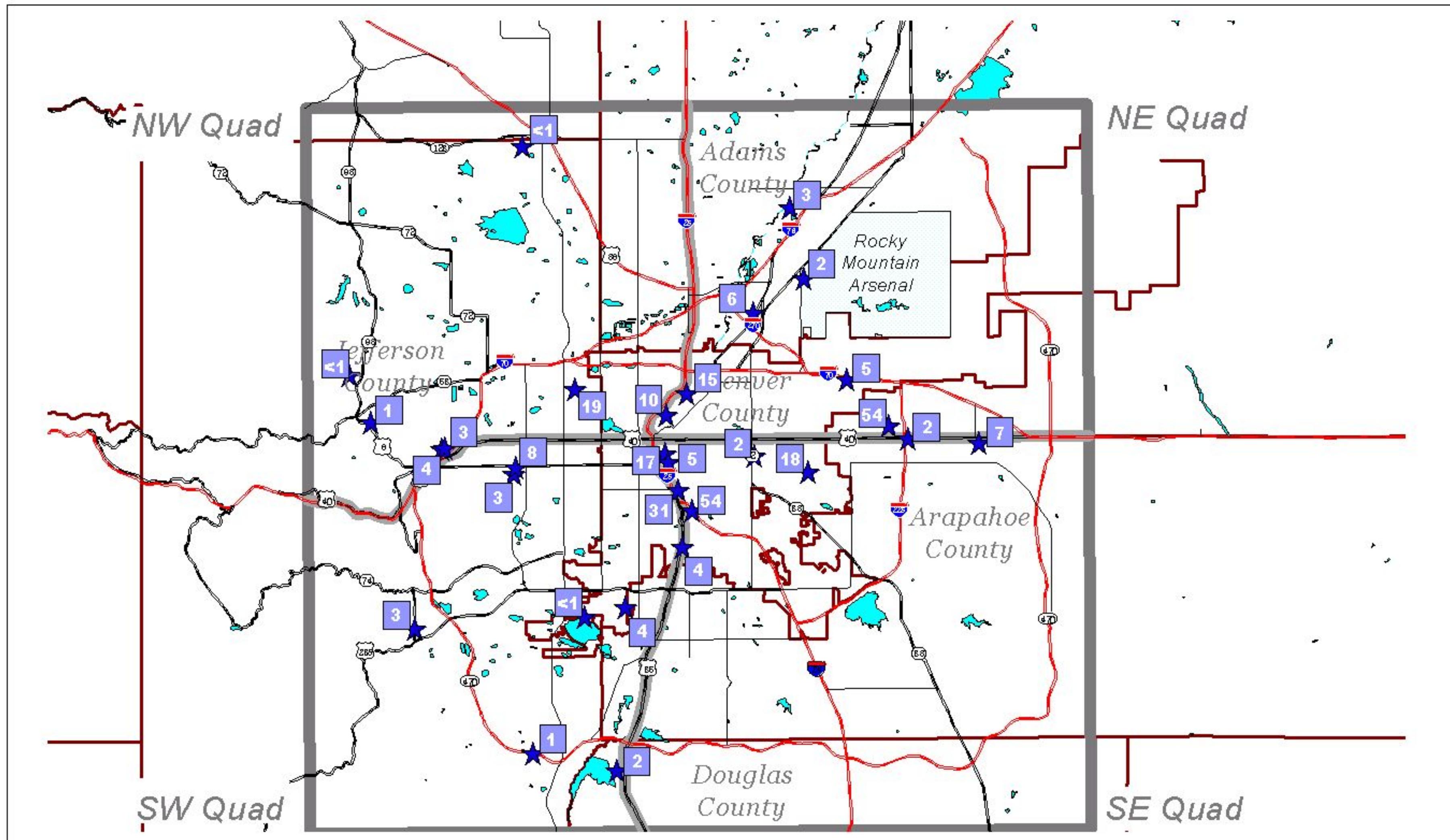
- Secondary Roads
- Primary Road
- Primary Highways

- Targeted Study Area
- County
- Lakes
- Rocky Mountain Arsen



# Results of Denver Front Range Dioxin Study (TEQ ppt)

## *Land Use - Industrial*



2 Toxicity Equivalent Values (ppt)

★ Industrial Sample Locations

Secondary Roads

Primary Road

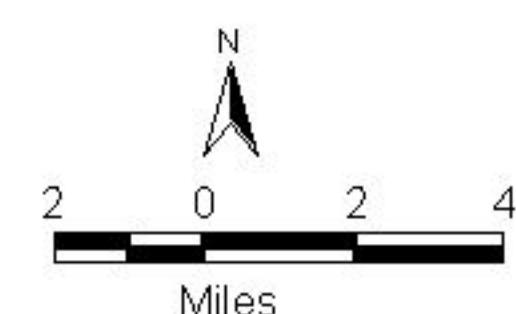
Primary Highways

Targeted Study Area

County

Lakes

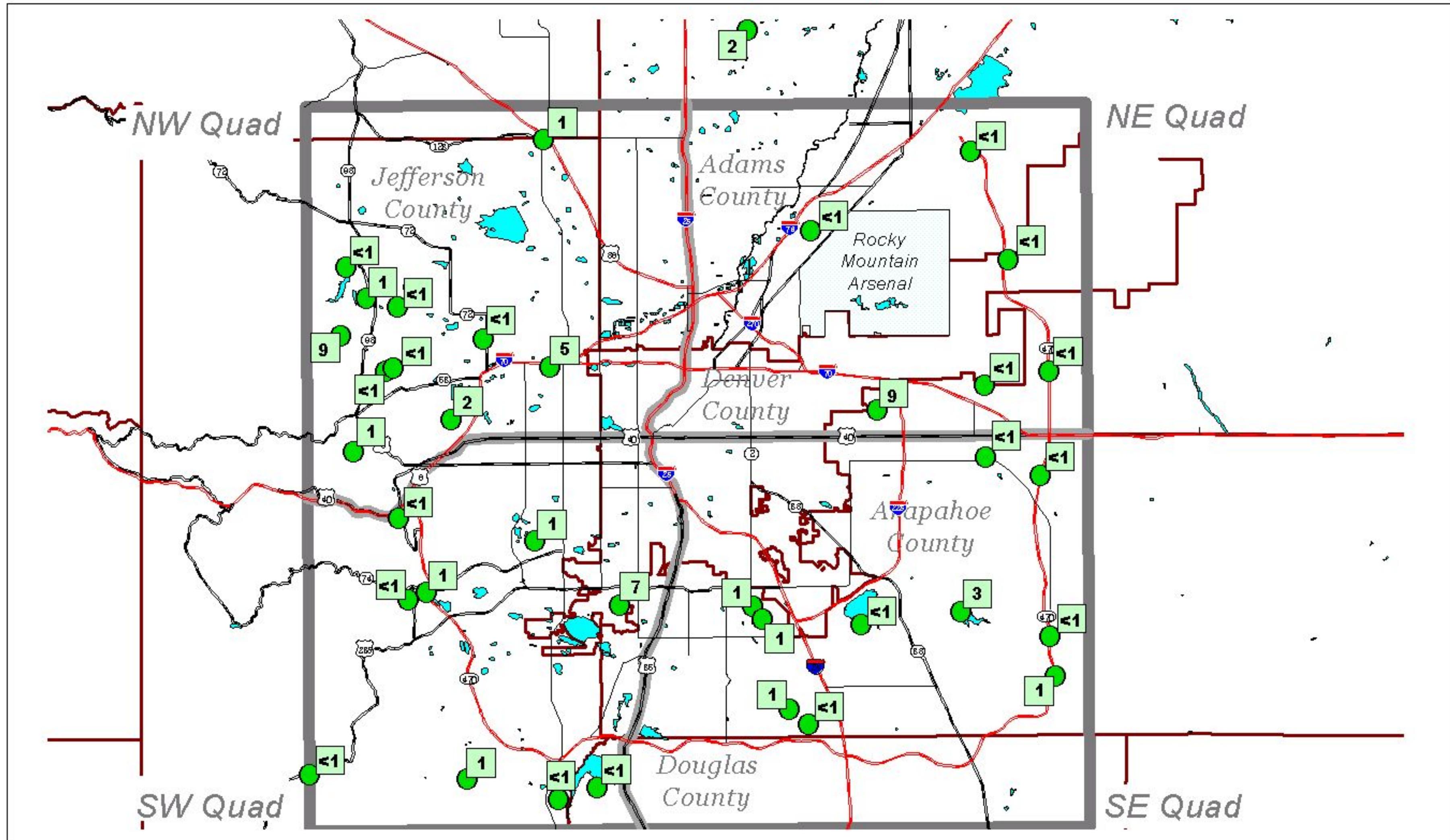
Rocky Mountain Arsenal



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# Results of Denver Front Range Dioxin Study (TEQ ppt)

## *Land Use - Open Space*



- 2 Toxicity Equivalent Values (ppt)
- Open Space Sample Locations

### Targeted Study Area

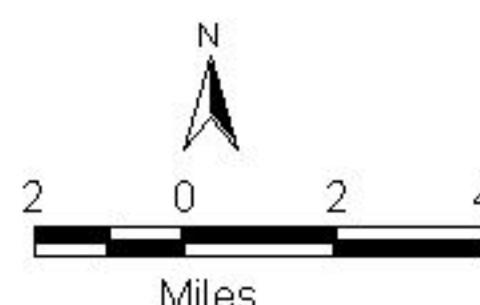
County

## Lakes

 Rocky Mountain Arsenal

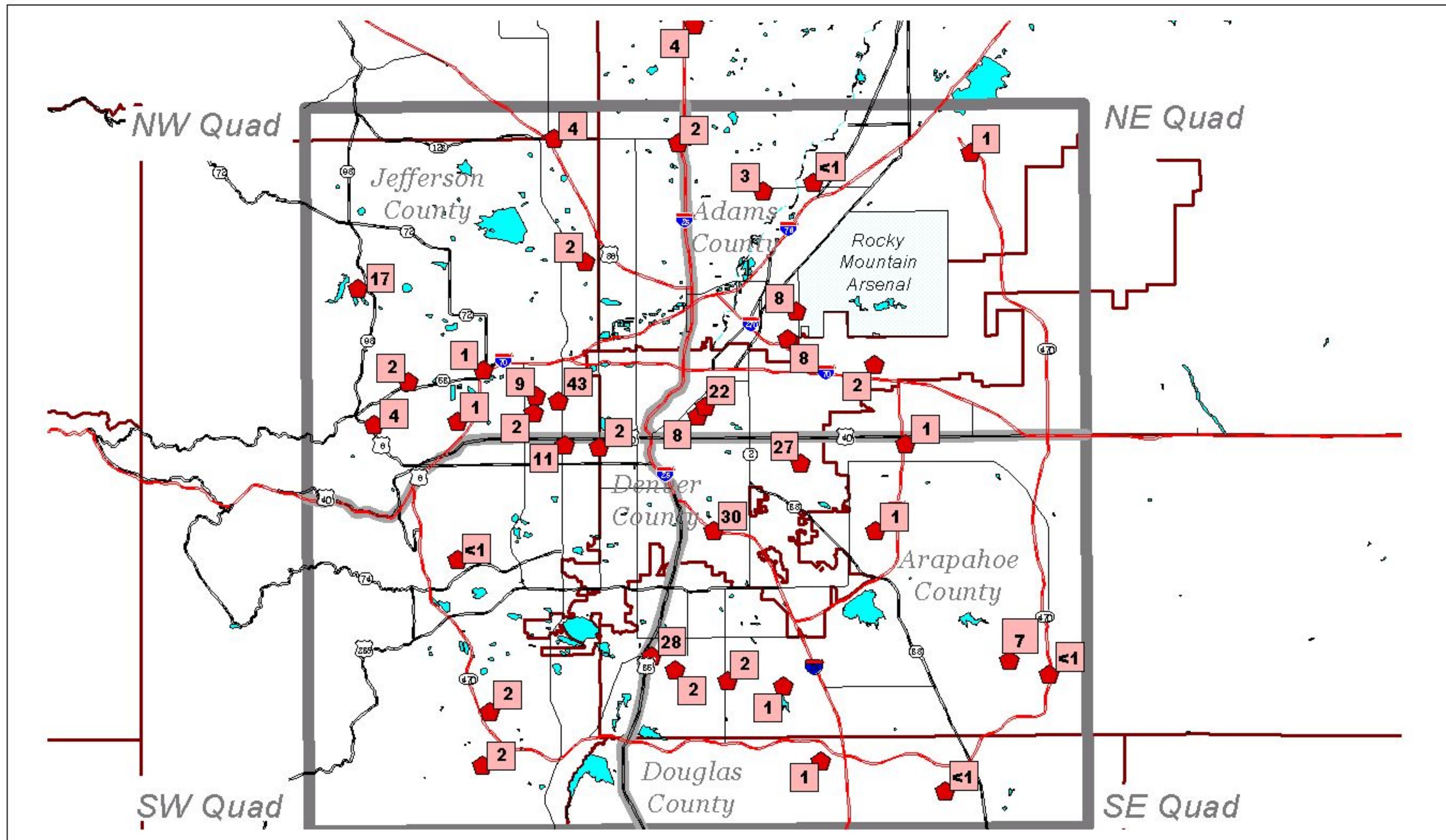


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# Results of Denver Front Range Dioxin Study (TEQ ppt)

## *Land Use - Residential*



## 2 Toxicity Equivalent Values (ppt)

 Residential Sample Locations

## Secondary Roads

## Primary Road

### Primary Highways

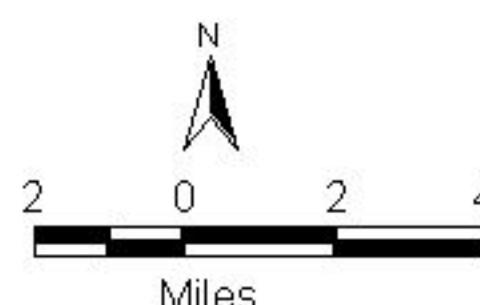


County

## Lakes

ANSWER

 Rocky Mountain Arsenal



**Gannett Fleming**